

FIGURE 1

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1   acggcatcca gtacagaggg gctggaacttg gacccctgca gcagccctgc acaggagaag
61  cggcataata agccgcgctg cccgggagcc gctcggccac gtccaccgga gcacccctgca
121 ctgcaggggcc ggtctctcgc tccagcagag cctgcgcctt tctgactcgg tccggaacac
181 tgaaaccagt catcactgca tctttttggc aaaccaggag ctgagctgca ggaggcagga
241 tggctctggag gctggtcctg ctggtctctgt ggggtgtggcc cagcacgcaa gctggtcacc
301 aggacaaaga cagcaccctt gaccttttca gtatcagcaa catcaaccgc aagaccattg
361 gcgccaagca gttccgcggg cccgaccccg gcgtgcgggc ttaccgcttc gtgcgctttg
421 actacatccc accggtgaac gcagatgacc tcagcaagat caccaagatc atgcggcaga
481 aggagggtct tttcctcacg gccagctca agcaggacgg caagtccagg ggcacgctgt
541 tggctctgga gggccccggt ctctcccaga ggcagttcga gatcgtctcc aacggccccg
601 cggacacgct ggatctcacc tactggattg acggcaccgg gcattgtggt tccctggagg
661 acgtcggcct ggctgactcg cagtggaaag acgtcaccgt tcagggtggc ggcagagcct
721 acagcttgca cgtgggctgc gacctcatag gaccagttgc tctggacgag ccttctacg
781 agcacctgca ggcgaaaaag agccggtatg acgtggccaa aggtctctgc agagagagtc
841 acttcagggg tttgcttcag aaagtccacc tagtgtttga aaactctgtg gaagatatcc
901 taagacaagg ggggttgccag caaggccagg gagctgagat caacgccatc agtgagaaca
961 cagagacgct gcgcctgggt ccgcatgtca ccaccgagta cgtggggccc agctcggaga
1021 ggaggcccgga ggtgtgcgaa cgctcgtgcy aggagctggg aaacatggtc caggagctct
1081 cggggctcca cgtcctcgtg aaccagctca gcgagaacct caagagagtg tcgaatgata
1141 accagtttct ctgggagctc attggtggcc ctctaaagac aaggaacatg tcagcttget
1201 ggcaggatgg ccggttcttt gcgaaaaatg aaacgtgggt ggtggacagc tgcaccacgt
1261 gtacctgcaa gaaatttaaa accatttgcc accaaatcac ctgcccgcct gcaacctgcy
1321 ccagtccatc ctttgtggaa ggcgaaatgt gcccttcctg cctccactcg gtggacgggtg
1381 aggagggtct gtctccgtgg gcagagtggg cccagtgtct cgtgacgtgt ggtctggga
1441 cccagcagag aggcgggtcc tgtgacgtca ccagcaacac ctgcttgggg cctcgatcc
1501 agacacgggc ttgcagtctg agcaagtgtg acaccgcgat ccggcaggac ggcggctgga
1561 gccactggtc accttggctt tcatgctctg tgacctgtgg agttggcaat atcacacgca
1621 tccgtctctg caactccccg gtgccccaga tggggggcaa gaattgcaa gggagtgccc
1681 ggggagccaa agcctgccag ggcggcccat gggcaatcga tggcgcgtgg agccccgtgt
1741 ccccgatggc ggctgtcact gtcacctgtg ccggtgggat ccgggagcgc acccggtgtt
1801 gcaacagccc tgagcctcag tacggaggga aggcctgcgt gggggatgtg caggagcgtc
1861 gatgtgcaa caagaggagc tgccccgtgg atggtgttt atccaacccc tgttccccgg
1921 gagccagtg cagcagcttc cccgatgggt cctggtcatg cggcttctgc cctgtgggtt
1981 tcttgggcaa tggcaccac tgtaggagac tggacgagtg tgccctggtc cccgacatct
2041 gcttctccac cagcaagggt cctcgtctgt tcaacactca gcctggcttc cactgcctgc
2101 cctgcccgc cggatacaga gggaaaccag ccgtcggggg cggcctggaa gcagccaaga
2161 cggaaaagca agtgtgtgag cccgaaaacc catgcaagga caagacacac aactgccaca
2221 agcacgcgga gtgcatctac ctgggtcact tcagcgaccc catgtacaag tgcgagtgcc
2281 agacaggcta cgcgggagac gggctcatct gcggggagga ctgggacctg gacggctggc
2341 ccaacctcaa tctggtctgc gccaccaacg ccacctacca ctgcatcaag gataactgcc
2401 cccatctgcc aaattctggg caggaagact ttgacaagga cgggattggc gatgctgtg
2461 atgatgacga tgacaatgac ggtgtgaccg atgagaagga caactgccag ctctcttca
2521 atccccgcca ggctgactat gacaaggatg aggttgggga ccgctgtgac aactgccctt
2581 acgtgcacaa ccctgcccag atcgacacag acaacaatgg agaggggtgac gcctgtctcg
2641 tggacattga tggggacgat gtcttcaatg aacgagacaa ttgtccctac gtctacaaca
2701 ctgaccagag ggacacggat ggtgacggtg tgggggatca ctgtgacaac tgcctcctgg
2761 tgcacaaccc tgaccagacc gacgtggaca atgacctgtt tggggaccag tgtgacaaca
2821 acgaggacat agatgacgac ggccaccaga acaaccagga caactgccc tacatctcca
2881 acgccaacca ggctgaccat gacagagacg gccagggcga cgcctgtgac cctgatgatg
2941 acaacgatgg cgtccccgat gacagggaca actgcccgtt tgtgttcaac ccagaccagg
3001 aggacttgga cgggtgatga cgggggtgata tttgtaaaga tgattttgac aatgacaaca
3061 tcccagatat tgatgatgtg tgtcctgaaa acaatgccc cagttagaca gacttcagga

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FIGURE 1 (continued)

3121 acttccagat ggtcccccttg gatcccaaag ggaccaccca aattgatccc aactgggtca
3181 ttccgcatca aggcaaggag ctgggtcaga cagccaactc ggaccccggc atcgctgtag
3241 gttttgacga gtttgggtct gtggacttca gtggcacatt ctacgtaaac actgaccggg
3301 acgacgacta tgctggcttc gtctttgggt accagtcaag cagccgcttc tatgtgggtga
3361 tgtggaagca ggtgacgcag acctactggg aggaccagcc cacgcggggc tatggctact
3421 ccggcgtgtc cctcaagggtg gtgaactcca ccacggggac gggcgagcac ctgaggaacg
3481 cgctgtggca caccggggaac acgcgggggc aggtgcgaac cttatggcac gacccagga
3541 acattggctg gaaggactac acggcctata ggtggcacct gactcacagg cccaagaccg
3601 gctabacag agtcttagtg catgaaggaa aacaggtcac ggcagactca ggacctatct
3661 atgaacaaac ctacgctggc gggcggctgg gtctatttgt cttctctcaa gaaatgggtct
3721 atttctcaga cctcaagtac gaatgcagag atatttaaac aagatttgct gcatttccgg
3781 caatgccctg tgcattgccat ggtccctaga cacctcagtt cattgtggtc cttgcggtct
3841 ctctctctag cagcacctcc tgcctctga ccttaactct gatggttctt cacctcctgc
3901 cagcaacccc aaacccaagt gccttcagag gataaataatc aatggaactc agagatgaac
3961 atctaaccca cttagaggaaa ccagtttggg gatatatgag actttatgtg gagtgaat
4021 tgggcatgcc attacattgc ttttcttgt ttgtttaaaa agaatacgt ttacatataa
4081 aatgtaatta cttattgtat ttatgtgtat atggagttga agggaatact gtgcataagc
4141 cattatgata aattaagcat gaaaaatatt gctgaactac ttttggtgct taaagtgtgc
4201 actattcttg aattagagtt gctctacaat gacacacaaa tcccgcataa taaattataa
4261 acaagggtca attcaaattt gaagtaatgt tttagtaagg agagattaga agacaacagg
4321 catagcaaat gacataagct accgattaac taatcggaac atgtaaaaca gttacaaaaa
4381 taaacgaact ctctcttgt cctacaatga aagccctcat gtgcagtaga gatgcagttt
4441 catcaaagaa caaacatcct tgcaaatggg tgtgacgcgg ttccagatgt ggatttggca
4501 aaacctcatt taagtaaaag gttagcagag caaagtgcgg tgcttttagt gctgcttggtg
4561 ccgttgtggc gtcggggagg ctctgcctg agcttccctc cccagctttg ctgcctgaga
4621 ggaaccagag cagacgcaca ggccggaaaa ggcgcactca acgcgtatct aggtcttggg
4681 aactgcggac aagttgcttt tacctgattt gatgatacat ttcattaagg ttccagttat
4741 aaatattttg ttaatatatta ttaagtgact atagaatgca actccattta ccagtaactt
4801 atttttaaata tgcttagtaa cacatatgta gtataatttc tagaaacaaa catctaataa
4861 gtatataatc ctgtgaaaat atgaggcttg ataataatag gttgtcacga tgaagcatgc
4921 tagaagctgt aacagaatac atagagaata atgaggagtt tatgatggaa ccttaatata
4981 taatgttgcc agcgatttta gttcaatatt tgttactgtt atctatctgc tgtatatgga
5041 attcttttaa ttcaaacgct gaaaacgaat cagcatttag tcttgccagg cacaccaat
5101 aatcagtcac gtgtaatatg cacaagtttg tttttgtttt tgtttttttt gttggttggg
5161 ttttttgctt taagttgcac gatctttctg caggaaatag tcactcatcc cactccacat
5221 aaggggttta gtaagagaag tctgtctgtc tgatgatgga tagggggcaa atctttttcc
5281 cttttctggt aatagtcac acatttctat gccaaaacagg aacgatccat aacttttagtc
5341 ttaatgtaca cattgcattt tgataaaatt aattttgttg tttcctttga ggttgatcgt
5401 tgtgttggtt tgctgcactt tttacttttt tgcgtgtgga gctgtattcc cgagacaacg
5461 aagcgttggg atacttcatt aaatgtagcg actgtcaaca gcgtgcaggt tttctgtttc
5521 tgtgttgtgg ggtcaaccgt acaatggtgt gggaaatgac atgatgtgaa tatttagaat
5581 gtaccatatt ttttgtaaat tatttatggt tttctaaaca aatttatcgt ataggttgat
5641 gaaacgtcat gtgttttgcc aaagactgta aatattttatt tatgtgttca catggtcaaa
5701 atttcaccac tgaacacctg cacttagcta gaacctcatt tttaaagatt aacaacagga
5761 aataaattgt aaaaaaggtt ttct

FIGURE 2

1 mvwrlvllal wwwpstqagh qdkdttfdlf sisninrkki gakqfrgpdg gvpayrfvrf
61 dyippvnadd lskitkimrq kegffltaql kqdgksrgtl lalegpglsq rqfeivsnngp
121 adtldltywi dgtrhvvsle dvgladsqwk nvtvqvaget yslhvgcdli gpvaldepfy
181 ehlqaeksrn yvakgsares hfrgllqnvh lvfensvedi lskkgcqqgq gaeinaisen
241 tetlrlgphv tteyvgsse rrpevcersc eelgnmvqel sglhvlvnql senlkrvsnd
301 nqflweligg ppktrnmsac wqgrfffaen etwvvdscct ctcckkftic hqitcpgpatc
361 aspsfvegec cpsclhsvdg eegwspwaew tqcsvtcgsg tqqrgrscdv tsntclgpsl
421 qtracslskc dtrirqdgw shwspwsscs vtgvggnitr irlcnspvpq mggknckgsg
481 retkacqgap cpidgrwspw spwsactvte aggirertrv cnspepgygg kacvgdvqer
541 qmcnkrscpv dgclsnpcfp gaqcssfpdg swscgfcpgv flngnthced ldecavpdi
601 cfstskvprc vntqpgfhcl pcppryrgnq pvgvgleaak tekqvcepen pckdkthnch
661 khaeciylgh fsdpmkcec qtgyagdgli cgedsdldgw pnlnlvcatt atyhckdnc
721 phlpnsgged fdkgigdac ddddddngvt dekdncqllf nprqadydkd evgdrcdncp
781 yvhnpaqidt dnngedgacs vdidgddvfn erdnpcyvyn tdqrtdgdg vgdhcdncpl
841 vhnpdqtdvd ndlvgdqcdn nediddghq nnqdnpcyis nanqadhrd gggdaccpdd
901 dndgvpddrd ncrlvfnpdq edldgdgrgd ickddfdndn ipdiddvcpe nnaisetdfr
961 nfgmvpldpk gttqidpnwv irhggkelvq tansdpgiav gfdefgsvdf sgtfyvntdr
1021 dddyagfvfg yqsssrfyvv mwkqvtqtyw edqptrygy sgvsllkvns ttgtgehlrn
1081 alwhtgntpg qvrtlwhdpr nigwkdytay rwhlthrpkt gyirvlvheg kqvmadsgpi
1141 ydqtyaggrl glfvfsqemv yfsdlkyecr di

FIGURE 3

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1   acttttcttgc tgetctgcct gcatggacct gtgacaggca tcatctatng aatctcatgn
61  agcgtcgact ccctgccccca ggcattgggtg agtggcaagt gagagctgct cacaggcatc
121 aaaggggtcaa aatagcaccac aaggccgggc atgannncac gectgtaatc ccagtacttt
181 gggagggtga ggtaggcgga tcacctgagg tcaggagctc aaagccagcc tggccaacat
241 ggagaaaacc cgtctctact aaaaatacaa aaattagctg ggtgtggtgg tgtgtgcctg
301 taatcccagc tacttggagg ctgaggcagg agaataactt gaaccggga ggcaaaagt
361 gcagtgcagc agattgcacc attgcactcg agcctgggga aaaagagcaa gactccatct
421 caaaaaaaaa aaaaaaaaaat tgcacctagg cccaagccca gaaggtggcc ccgaacctgg
481 gccttccttt gaagccaggc ctggtatttg ccaagatcgt gcctcctgcc ccacatcac
541 caadgttaac tgcctccat tgctgggtg tgccctgggtg ctgctggggc gctggcgtgt
601 gaaatggcaa catgaggccg tgtctactga gccaggcatc ttagtgcttt acacagagaa
661 gtgaaacctc ctagcaaccoc tgtgagttag gtaccatttg attcccattt ttcagataag
721 gaaaccaagg cacaaagtgg ttggtagggtg gactaaggtc acccaacaaa tggaggcaaa
781 acgggacacg tgtccccacc aggagccacc agctgtccct ccttctccat ccacagact
841 gcgtgaagcc ctgggctact ctggctggat ggtatcaagt gtcacattct gtggagccag
901 gatgttctc caatccttta atcccaaatc ttttattgtg tttgttttgt tttgttttga
961 cagagtcttg ctctgtcgtc caggctggag tgcgtggtg caatctcagc tactgcaac
1021 ctctgcctcc tgggttcaag tgattctcct gcctcatcct ccctagtagc tgggactaca
1081 ggtgcgaccc accaagcccg gctaattttt gtattttttg ttgagacggg gtttcaccat
1141 gttggccagg ctggttatga actcctgacc tcaaatgatc tgctgcctc agcctccaa
1201 agtgcaggca ttacaggcat gagccaccat gcctggccta atcccaaatc ttaaacctac
1261 ttttctggt tctgcctcta gtgaaatcaa agatccctcc gctgctgtcc ctatgggaat
1321 gtggacaggg atgacacctc tcgccagctc tgggtggccc ctctggtctg gtcctttgct
1381 gccagctcc tcaagtctc ctcaacacc ctcttctcca gccctgctgc cactctcccc
1441 acctgagtac agacctcat ctttccacc tgggccccct ctctcgtcc cccagctcc
1501 tntccctag ntccatttat ttattctnat tttgnnagac ggagttttgc tcttgttgcc
1561 caagctggag tgcaatggcg cgatctcagc tcaactgcaac ctctgcctcc caggttcaag
1621 cgattttccn tgccctagcc tccaagtag ctgggattac aggcattgac caccaccccc
1681 ggctaatttt ngtattttta gtagagggtg ggtttctcca tgttggtcan ggctgggtctc
1741 gaactccga cctcagggtga tccacctgcc tcagcctgcc aaagtgtctg gattnacagg
1801 cgtgancanc tgntgnccct gcccctagtc catTTTTTT ttttttaatt gatcattctt
1861 ggggtgtttct cgcagagggg gatttggcag ggtcacagga caatagtgga gggaaggtea
1921 gcagataaac aagtgaacaa aggtctctgg ttttctagg cagaggacc tgtggccttc
1981 cgcagtgttt gtgtccctgg gtacttgaga ttagggagtg gtgatgactc ttaaggagca
2041 tgetgccttc aagcatctgt ttaacaaagc acatcttgca ccgcccttaa tccattcaac
2101 cctgagtgga tacagcacat gtttcagaga gcacagggtt gggggtagg tccagatca
2161 acaggatccc aaggcagaag aatttttctt agtacagAAC aaatgaaaa gtctcccacg
2221 tctacctctt tctacacaga caggcaacc atccgatttc tcaatctttt cccaccctt
2281 ccccccttcc tattccacaa aaccgccatt gtcacatgg cccgttctca atgagctgtt
2341 gggtagacct ccagacccgg gtggtggcgg gccagagggg ctctcactt cccagtaggg
2401 gcggccgggc agaggcgccc ctcanccctc cggacggggc ggctggccgg gcggggggct
2461 gaccccccca cctccctccc ggacggggcg gccggccagg cagaggggct cctcacttcc
2521 cagtaggggg ggccgggcag aggcgcccct cacctcccgg acagggcggc tggccgggca
2581 gggggctgat cccccacct cctcccgga cggggaggct ggccgggcgg ggggctgacc
2641 cccctgacc cccccacct cctcccgga gggcgggctg gctgggcggg gggctgacc
2701 ccacacctcc ctcccggaag gggcagctgg ccgggcgggg ggetgacccc cccacctccc
2761 tcttggacgg agcggctggc cgggcagagg ggctcctcac tcccagtag gggcgccgg
2821 gcagaggcgc cctcacctc ccggacgggg cggctggccg ggnccagggg ctgatcgccc
2881 cacnctccct ccggacgggg gaggtggcc gggcgggggg ctgaccccc cacctcctg
2941 ccggacgagg tggctgccg gcagagacgc tctcacttc ccagacgggg tggcttctgg
3001 acgatgggc tctcacttc tcagacgggg cggttgccg gcggagggtc tctcacttc

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FIGURE 3 (continued)

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3061 tcagaggggg cgccggggca gagacgctcc tcacatcccg gacggggcgg cagggcagag
3121 gtgctcccca catctcagac gatggggcggc cgggcagaga cgctcctcac ttcccagatg
3181 ggatggctgc aggggaagagg cgctcctcac ttccctagatg ggatggcggc caggcagaga
3241 cgctcctcac gtcccagacg atggggcggt gggcagagac gctcctcact tcccagacgg
3301 ggtggcggcc gggcagaggc tgcaatctcg gcactttggg aggccaaggc aggctgctgg
3361 gaggtgaagg ttgtagcgag ccgagatcac gccactgcac tccagcctgg gcaccattga
3421 gcacggagtg aacgagactc cgtctgcaat cccggcacct caggatgccg aggtctggcg
3481 atcactcgcg gttaggagct ggagaccagc cgggccaaca cagcaaaacc cgtctccac
3541 caaaaaataa cgaaaaccag tcaggtgtgg cggcgcgcac ctgcaatcg aggcagtccg
3601 caggctgagg caggagaatc aggcagcagt accgtccagc ttcagctcg catcagaggg
3661 angaccgtgg agagagggag agggagaccg tggggagagg gagagggaga gggagggaga
3721 gggagaggga gaggagagg tatgagccta gtccattttt atanncatgg ctctgaggat
3781 gctccaatct gaccacagct tctgttcaact tagcgccctg ccccggtgtc tcatcacctt
3841 ggggataaaa tccacactct gagagtgaagt gcaaagtctt tcttggcgtg gcctctgcct
3901 cctccatttc ctccaggcctt gctctaccac acaagtccct ctattagtgc ctcccgatgg
3961 ccagctccct ggcagggctg atagtgataa aatgttcagt agtcagcaat aaagaggcaa
4021 aaacagcaac actgatttat agatatgaaa tcaaccagat gtatcagcca agttgccagc
4081 attcctttct tggtcacaat atcttttatt ccaaacatcc tttctattta tttttgtag
4141 ttaagatttt attacttctt ttgtaaaacg gtggtgagaa taagggacta ttttttttaa
4201 atgtccttac ttggcaaaact aaaaaatgtt tgcaactcta gtaagactcc actgggagct
4261 caggggctgg ggtgcctgat ctggccctaa agccccannn nnnnnnnnnn nnnnnncgac
4321 actgacctgg tgctgcgtg attcttcttc attgttccca gacagggggc aggaaatgga
4381 atgaaagcag ccactgtctg aagagctgga gaccatcatc tgctctgga agcccagaga
4441 acctcggctc agacagaagg acagagactg aggggaaggga gagagactgt gacagagaga
4501 cagaggaggg tgacagagtc agggaggaac aaaacagcct gcagtgggag cagagacaga
4561 aatgtggggg acccacaggg anggggaggg aggggaaggg agggacggag ggagggacaa
4621 ctgccgtcca agtggtcgtg agagcctggg gctggggaga ggcacctcc tctgttggc
4681 ttctcataca gtctctatca ggggaccag gacacaagaa gcaaattcat ctttgggtcc
4741 acccttcagc tctagaagtc tagggcctgg ccaggtcctc tgaaggggtc tctggcccca
4801 ggcctcttcc tgccccctg cgtggcccc caagcccttc tcaagagccc ttcagtaa
4861 aaattcactg gaagacatca atgatgggtc ataggaggtg ttcctagggg agaaaatgac
4921 atttagtttt tagctcactt ggagccattt gctttaagaa gcacctctg gccaggcgca
4981 gtgactcacg cctgtaatcc caacagtttg ggaggccgag gtgggcggat cacctgaggt
5041 caggagttca agaccagcct ggtcaacatg gtgaaaccct gtnctctact aaaaatacaa
5101 aaattagttg ggtgtggtgg catgtgcctg taatccoagc tgcttgggag gctgaggtga
5161 gagaatcgct tgaactcagg aggtggaggc tgcagtgagc tgagatcaca ccactgcatt
5221 ccagcctggg tgacacagtg agactatgtc taaaaaacia aaaacaaaaa cgaagcacct
5281 cttgagagag ctttgcatgc agatgtcaca ggcaaatgc ctcatgttgt ggggaatgtg
5341 gcagtggact tctggggcca ggctgagggc cccacgtgct gtccccctg ggagcagggc
5401 agggtnggct gggttgacag atgtgcagag aaggagagaa gtgggggcaa tgccttctct
5461 ctgatggtca gctggcggga aaggctccag gggcttctga ggagagacc taagaggact
5521 ctggatgggc ctgggctggg ggnaggctgg tgctgacctg gcacgtgggc actgtggggg
5581 tgcaatggg gacagtgtgg gaggtgtcat ggggggtctt tacactgggt actaaagagc
5641 ttaggagcct gacgtacctg gtgtggggca atcacatttg ctgctgtgtc caggcaaggga
5701 ggagcaggtg ggcttggaac ccaaagtga atgaagtggc caggactgag cgctgggcca
5761 acgtgagccc caggggggtg ttggatttat cagctgaaga agggcctatg gaaggggaga
5821 aaacaatcct ccagacagat gagagcactc agtcacatcc acctggacct gacatcacct
5881 cccaggtgtg gcaggggcac acacagaact ggaatgggta atgacttatt agagcctcct
5941 tccaacagct gtggggcctg gaacctaaaga accaccttt ggagaacatt tttgggtctg
6001 agagctttga ggccaggcct tgagacaaac ccaccagaa gccctgagct acttttgctg
6061 taagagtagg nagggccctg cccctgctcc agggccggc ccttgatccc tggaagagaa
6121 ggaagcactg actgatccag agggggcgatg agtccagagg ctgagatcag ctggaaccgg

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FIGURE 3 (continued)

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6181 gccaccagct gagcgtgtga ttcctctggc tccaggccac ctctgagggc cteccaatgg
6241 ctgggagggg ttagaggact gtggcttctt ggggtgaggg gcctctgggt tacagtcacc
6301 gtgccctttg aatctaactc gctctcgaca agaatacagc gacctgatag gcatgctcag
6361 gcaggaggca natggccagg gccaaagaga gcataaggat ggagtagagg agggagcaga
6421 gcagggtcag gtgaaatctc tcaactcagga caattgtgca gctgacttgc tgataccttg
6481 gaggagtcac gaagttcagt gtgccagttt ggggcatctt ccaggctgtg gctccatcac
6541 cctgcagttt tggctcagaa cagccaccac atctcactg ctctcctggg atgagaaggt
6601 ggggtggagaa ccaggggctt ggtgcgtggc cagagctgga gcagcttcag gagccagggt
6661 aaacctcaga gcctcacagg ctttgaacaa agtgcaggag tcccagccct gccatttatg
6721 gcgggttccct ggcggtgatc agtcattatc agcagtatgt tcaactctgt gatatcacc
6781 aaggccatga tcatccctta cccaggccct tgcacacttg ctccctgtc cnnnnntaga
6841 cagctggggn nngctgttcc tgctcttcgc tggccctggc actcacagag cagctgactg
6901 actgacctac caacttaggg agaaaagtgg ggaggtgggg atggaggaca ctctggggat
6961 acagcctctt cgtgatttcc ttcctggagg ggagaggcgg ccagggaat gcaatgctgg
7021 ggctgcagtg cctccgctca gccacagcac tggctgcagg gcaaaccctc aggaccagat
7081 gaggggagct cagcctgatg tccaggttcg ctggcatgtg agggacgtgg tcaggcacag
7141 ctatagccat ggggtctatg acggttcctg gatcccagga attgctgggt ggggtccctga
7201 tacacacctc acgtcttcaa cctctgccc ctctgatggc ctgttggcac tctcctgcc
7261 tatctctgca cactcagcga ctttccctt tgatggggac aggagtggag gagggcaggg
7321 caggatggag acaccataca cattcctgct cagtgccttt gccctccctc tccatccat
7381 gggagtccac tcccctagac cttcantgtg gcctgcgcc ccacttctcc ccccagagc
7441 cttcctagtg ccccaacaa gtgcctgcc tcgcctgacg cctgtttgt cccctctgc
7501 ctctcttca tgctgcttgt taggttgaaa cataacatct gtgtttcaaa acacatgcag
7561 tcaggtttct gtgcatgtgt gtatgtagat atagattgtg gtgcaatctc agctcactgc
7621 aacctcctcc tcttgggttc aagcaattct cgtgcttcag cctctcgagt agctaggact
7681 acaggcatgc accaccacgc ctggctaatt tttgttttcc tttttgtatt ttttttagtg
7741 gangatgggt ttcgccantg ttggccaggc tggctctgga ctctggcct caagtgatca
7801 gcctgccttg gcttgccaaa gtctgggat tacagggtgt agccaccgca cccagcgtt
7861 agtttacttt ttaattccct gtctaccac tcttgtaag ttacatgaaa gcagacacct
7921 tgtgtgtctg atctgttact gtctctccag ggcctaggat aagcaggtgc cagtaagcct
7981 ttgttggaag aaaggaagga gagaaaatgg acctcctctg gatgggateg ttggctcctg
8041 cgtgctgatg tgcagcctgt gaccgggct ctgcactgct cctctggctc caggcaatca
8101 tcatggaaag ggcggcctcc ccagagggt gcctgggaat gaactgggca tctggggaag
8161 cccattncct ttggctgcct cttgcctgtg gcgccaggg ctgccgtgcc acctccttg
8221 tgaagctggc cccagccct gcttatcagc cccatgtccc attccttgg gccagcaga
8281 ggtaaaagtg gctaagtggc ttaactgggc cagggtgcagt ggctcacgcc ggtaatccca
8341 gcactttggg aggccaaagg ggggtggatca cctgaggctg ggagttcgag accagcctga
8401 ccaacatgga gaaacccgt ctctactaaa aatacaaaat tagccaggcg tgggtgggca
8461 ttcctgtaat ccagctact tgggaggctg aggcaggagg atcactgaa ccacggaggc
8521 ggcggttgca gtgagctgtc attgcactcc agcctggaca aggagagcga aactccgtct
8581 taaaaaaaaa aaaaagggtg ctttaactgtc ctctctgtca tggcctctcc cteccctctg
8641 cccagtggtt atttggtctt tttgtctgtc ttgttttcc cagactgacc agccttgggg
8701 ttaaccaggg gcagggtgac aactcacagg caatgacgtc cctcagcctc cttccccca
8761 cactccagag gctgcagggt actcagggtc ttcgtcgggt gctccggaag ccttgcagggt
8821 gccctgccac atggccgctg tgctgctggc tgctctgacg ggtcctgccc gggctactgc
8881 tttcctgtcc cctccccga agctgggaga tggatttcc cctgagtga ttaattgggt
8941 tattttaagc tcatcaaagt agcctcgtac tttcaagtcc ctcagggagc aggcccgga
9001 gatgatacct gcggaactaa ggctgctcca ctgcaggata tggggtcggg ggctgtgtct
9061 gtcaattgtg aggtccctca gggcaggccc cctcctgagc tggacagggc ttggctcctg
9121 agtgcgtgatt ctgcaggctg tggctcagtt ctgcactatt actctggctc cggcaaatcc
9181 tcatgaaaat aagcctggga gccccagggt ttgcagggtta gcccctaca gcttccctt
9241 gcatcatcct tgctcctcta accagggaca ctctgcctc ctccctgact atctctgcgc

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FIGURE 3 (continued)

9301 ggттаacacc tgagcatctt ctggctcgat aattctgtca tgaccaata cgccttccct
 9361 gaccctcaca tctgggttga gggccttcc atgcctgta cctaactctg gttttccctc
 9421 tgtaaggtgg tcagagatgg gcttgggcag agtagtttca aaggctctcc ccaaactctt
 9481 gtgcagctcc cctgactgaa ggctgtgag aacaggggtg tgctgtctt gtctactgtt
 9541 cccaataacc tcacctagtг cctggcacag agaagggtaca aaaataaaac tttcccaaga
 9601 atgaatgggtg tgcatttgaa tcttatagtг tctgaggact ggggaaccat ctcttatccc
 9661 tttgtatcct ctgctgcccа aggtcagggc ctctgcctga agtcctact gaatgagggт
 9721 taactgggtc agagatgagg gaggaagcca ttgctgggag gggctagaаn ctgggcccct
 9781 gcccttccca caccgagca agagcagtag gattgtcaga tgaaacacag gacatctgct
 9841 cacatgtgag gaatacatct ttttttaag acagattctc tctctgtcac ccaggnctg
 9901 gangtgcagt ggcатgatct tggctcattt caacctctac ctctgggtt catgccattc
 9961 tcctgtcgta gcctcccag tagctgggat tacaggcatc caccaccatg cctggctaаt
 10021 tgttggtttt ttagtagaga cagggttttg cctcattggc aggtctgtct tggactcctg
 10081 acctcaagtг atccgctcac ctcagcctcc caanagtгct gggattacag gcatgagcca
 10141 tggcaccag ctggaataca tctttagtat actgcatgta atatttggga catgctcatg
 10201 ctgaaaaaac taactgaatt tgaatttttt tttggttttc tttttttgag atggagtctc
 10261 actccattgc ccaggctgga gtgcagtggc аcaatcttgг ctactgcaa cctccgctc
 10321 ctgggttcaa gcaattctcc tgtctcagcc tcccaagtag ctgggattac aggtgcctgc
 10381 caccttgccc agctaatttt tgtattttta gtagagacgg ggtttcacct tgttggtcag
 10441 gctgggtctг aactcttgac ctcaggtgat ccaccacct cggcatcca aagtgtggg
 10501 attacaggtg tgagccaccg caccggcct gaatttgaat ttaactggga agcctttttt
 10561 tattttttcc tcttctttct gaatctggta accctagcaa gggagaagtг actagccagg
 10621 tgccaggtgg gtctacggcc tgagtctcca gctctctatt cacattctgc ctgcttccct
 10681 gatgttccct cctccttaaa tgctttctgt cagagaccag ggggcactct aggcctggct
 10741 gccagcacг cggaatccag gagcactcct acctcctaаt cctgccccа gctgcccct
 10801 ggatggtcag ggaaggcctг aggggtgat gtttgagctг agatttgaga gaatgtgacc
 10861 agagatgatc caggaaagaa cattccatgg agaggtggga gtgaacttgг tgcatctgaa
 10921 aacagaaagg ctagcgtggг tctgcgatgt gggaaaggag tggaaacatg gaaacacagt
 10981 cagcatttcc tttttttttt tttttttttt ttgagacgga gttttgctct tgttgtccag
 11041 gctggagtgt aatggcgгgг tcttggtcа ccacaacctc tgctcctgg gttcaagtga
 11101 ttctcttgcc tcagcctcg gagtagctgg gattacaggc atgtgccacc ccgcccggct
 11161 aattttgtat ttttagtaga gatggggttt ctccacgttg gtcaggctgg tctctagctc
 11221 ccgatctcag gtgatecgcc cgcctcgгcc tcccaaagtг ctgggattac aggcgttagc
 11281 acnaactcag gaggcctgg aactcatctt gtgccactca agaaaggгca ggaaggggtcc
 11341 tctcctttcc cacctttccc aagctgaagg actgcacact tctcaggctt ccaaggcagg
 11401 agcttcggca gcaggaacag ggttgcaagg tagttagtct ggggtgtctgt cgtcctgggt
 11461 tgggacatct gggagctggг gcaaggcctc tgggcctag tgccagagag cagtttggtg
 11521 gcgttgccгг tcttttaaaa tgggttaggt gtagccatga gccccccat gcagcgggtg
 11581 tgaggcctc tccctcagtc agaacacct caccacccc tcccacttg aagcaggccc
 11641 ttgagaacac tgctggcagg gaggcggctг ctcttccctc taagggaaaa gcctgcagcc
 11701 ccgtgctgct gggccgtggг gtgaggggga agccaaaggг cccctatcac cctcagcag
 11761 gagtctctcc tggctttgga aggggctgaa ggcccggng ctctcacgag ggaactcagc
 11821 cctgctcagc cggtcaggac tctcctcca cgtctaaatc cacagacca acaaaggaca
 11881 ttgctcagtt ccacctcaa tccacaggga ttctgcctgt tagcacgcta aggaaactgt
 11941 ttcttacttt aaattatcca ttaatttccct ccaactgaaa gatactctac aaattttctg
 12001 ttgttgagg gtttaagctt ggtccctctг aggggggtggг cctgctgtg tcggcccctt
 12061 gtgtctgtc gtggaagggtg tgccatgtgc caccgtgtgc catatgcagc tgacacgcct
 12121 gtgcgtctг cctggcgtг gagactgtc tctgtgtact aagcgagtac tggatcccca
 12181 gggcctatct tgcccactgc ctgtggcaat nacacaggca atacacaaag cgcattcaag
 12241 taagcaggtc tccctgcccc ccggcctccc agaacctггг tgctggagg gcaggntggg
 12301 ggnagggcгг tctgaatgg aggcgggttt cctctгггг ggaggaaacc ccatttccct
 12361 cctacccta ggcgcttgct acatctggcc cggcatcaga caggaaagaa ccttttcttc

FIGURE 3 (continued)

| | | | | | | |
|-------|------------|-------------|-------------|-------------|-------------|-------------|
| 12421 | ccagcttgta | ggaagtctga | gctgggcccc | ttatctaccc | acagcacttc | ctggaccggg |
| 12481 | ggcctggacc | gggctccgaa | gggncctggnc | tcccggtctt | ggtcttgggc | tccggccct |
| 12541 | cgtttctctg | cgttttgggc | aggggaagct | gcggacggca | agctctcggc | tttcgtgaga |
| 12601 | gcctggtgga | atcgggtgttc | cccgaaggct | actctgcggg | ggcgggggct | agntccgggc |
| 12661 | cttcccggca | gtatcgtcnt | cccccggtgg | ggctggggna | nggtngcccc | cagggctnnc |
| 12721 | ccggagcggc | ggcgtggcca | agggccgaac | cgggtctgac | atctagtggc | ctcctgggcc |
| 12781 | cgggcagggc | gagggncggg | gcaggggaaga | aggtggaggg | cagaatggga | ggcgtggagc |
| 12841 | gagaaaatca | ggaagcgcgg | gaccaagccg | gggaaggcg | gcgggtctcg | ccccctggac |
| 12901 | ccgtctctct | cggggcccg | cccatccccc | aggcctggcc | gaccccaggt | ccttcogtgc |
| 12961 | gcagtcgggg | ctcgcaagga | cgaatcccg | ggccctcgag | gcaggcccg | gggagctccc |
| 13021 | ggccctccac | ccccgcaggc | cgcagatccc | acgcaccccc | gatcatggg | gccccggagg |
| 13081 | gaggtcgcga | ggccgggctc | acgggtggcg | cggttcgccc | acgtgcgggc | ccggagctgg |
| 13141 | cagggcccg | tcccagcgt | ggccgcaacc | gcggggacct | ggcacgtgcg | gggcagcccc |
| 13201 | ggggcccg | tacgccactt | ccggtcccg | agacaccgcc | cagcccgccg | cccggttgc |
| 13261 | atggcgacgc | cgtcgcgcca | cggcccgag | aaccggccaa | gcgacccggg | cgcggcgcgg |
| 13321 | ggaggctgaa | gggacgctcg | ggtaggcaag | gtaggaggcc | gggctggggg | tgggagcggg |
| 13381 | gcgcgcaggg | gtgcggggcg | ggggcgccc | aggtgagccc | tgactgcgca | gggagggaca |
| 13441 | gcgcggggct | cccgagtagc | agccggcctc | gcacctgccc | cttgcgccg | cgcactggac |
| 13501 | tgcggcgccg | acccgcaccc | tgggcccag | ggctgcaggc | tgcgccccc | tctcggagcc |
| 13561 | gagcctctcc | cgggtccaggc | ggccctgccc | ctggcctgcc | cgggtgcggg | gtctctgctg |
| 13621 | aagttagaac | cgagaccccc | gcttgctggt | gaccccgagt | ttggatcttt | gtcctgcgc |
| 13681 | cgcgttctag | agcaaggtag | ggtgcaaatg | gaccaaccag | cctttgccac | ggctgccttc |
| 13741 | ttgaaatctg | aaaccggagc | caccgcctct | tgccccgagc | agggcccggg | ctgcaacgtg |
| 13801 | gagccgcagg | tccccgcctg | tgtctccga | cgcccccage | ttctgagcgc | gaggggtggga |
| 13861 | gtttcccag | tgggaaagcc | ccatggcttc | ggtggcctcg | gtggccctgt | ggtgggtcag |
| 13921 | gcccgtgcca | actgcgctga | gggcggactg | ccgccacctt | gacacctggg | agatggcagg |
| 13981 | gccaccctcc | ctccctccct | ccctgcccctg | tcccgaactg | tatcacggag | cgaggatcat |
| 14041 | ccgtgtggat | ctgggggtccc | cttcccagac | ttctcctttc | tggctgctct | cctctcattc |
| 14101 | attccacctt | ggcagccttt | gtggattttc | tgactccgta | aatgaagtta | catctagggc |
| 14161 | gcctagattc | tgcccctttg | gtttaatagc | taatgaaaaa | aaaaaaaaaa | aagctttgcc |
| 14221 | acctcctcta | ggtgcctgga | ttctcccg | tgaaatttga | tggaggcagg | aaaatacag |
| 14281 | gcggtggcag | ccccacctcc | ttgcatgagg | gagcctccta | gagctggagg | tggaaaccac |
| 14341 | ctgcttgctc | cactcctttt | ctttcttgct | ttattgcttt | cttgctttcc | ttactttcct |
| 14401 | tccttctttt | ttttttgaga | tggagtcttg | ctctgttgcc | aggaggctgg | agtgcagagg |
| 14461 | gcaatatcag | ctcactgcaa | cctccatctt | cggggttcaa | gcgattctcc | tgttccagcc |
| 14521 | tccctagtag | ctgggattac | aggtgtgtgc | cacaacacgc | agctaatttt | tgcattttta |
| 14581 | ggagagacgg | ggtttcacca | tgttgccag | gctggtctcg | aactcctaac | ctcaagtgat |
| 14641 | ctgcccgcct | tggcatccca | aagtgtctagg | attacagacg | tgagccaccg | tgcccagcct |
| 14701 | tgtcctacta | cttttctgccc | ctcaccactt | ttccttggca | ggcagagctt | gggtcctgc |
| 14761 | taatactggg | atggttcagt | ggcattagat | ggcattgggtg | gaggggaatg | agaaattaac |
| 14821 | ccctctgaa | agcgtagctt | cactgggaaa | aagcactcta | ctgtctgaac | aattcataaa |
| 14881 | tgaatttttg | gaatatacaa | tgtcacagat | taaaagcaga | ccatcctgtg | ttcttccagc |
| 14941 | cccaggagct | tctgcttggt | gtgcaggggc | taatggtgga | cagcaatgga | gtgtagattt |
| 15001 | attagagacg | gctgccatct | ggctctctgt | ggccccaac | ctcatgtgtc | agcagtgtga |
| 15061 | ctctttctaa | ggtgctctta | ggaccagatt | tcgtttttgt | aagattgggtc | tttgatggaa |
| 15121 | tgcctacttt | gtggcaggca | ctgtgctggg | cgtgggcaca | cctttatcca | cttactcctt |
| 15181 | ctgtgttcaa | taaggtagct | ccagatatcc | tccactttat | agattaggaa | gcaggcttgg |
| 15241 | agaagggact | tggcttgctc | aggagctgat | ggttataaat | aatgagtctg | ttttgaaatc |
| 15301 | acatctctct | aacctgggct | gcgctgggcc | tttcatgggc | cgttggccct | ctggccttca |
| 15361 | cgggccccgt | cttcataaaa | aaaaataata | acaattggcc | cggcgagctg | gtgaaagcgc |
| 15421 | gtctctacaa | aagatacaaa | aaattagcca | ggcatcgtgg | agcacgcctg | taatcccaga |
| 15481 | ctcggggag | ctgaggcagg | agaattgctt | ggaccgggaa | ggcagaggtt | gcgggtgacc |

FIGURE 3 (continued)

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15541 gagatcttgc cattgcactc cagcctcaaa aaaaaaaaaa ttaataaaaa ttatatattta
15601 caactgcatt ggtataaata caagtatagt ccagactgga ttacaattaa ttttaaaaaac
15661 aaaacatttt agggctggct catgtctgtc tgtaatccca gagctttggg aggctggggc
15721 agggaggactg cttgagacca ggagtttgag actagcctgc acaacatagt gagaccctat
15781 ctctccaaaa aaagaaaaaa ttaactgggc atttcagcat agctgtagtt ccagctactt
15841 gagaggctga ggtgggagga tccctcgagc ccaggagttc gaggetgctg tgagctatga
15901 tcatgccatc gtattccagc ctgggtgaca gaggtagaca ctgttaacaa caacaacaaa
15961 aaaattaatt aaaataagtt ttaaaaaatt gcaacatttt cctcaaccct aaatgttcat
16021 ttttttcttc tgattttcat ggaaatggaa acatttttgt ttgtaagcat tgggagccct
16081 ctgtcttgtg ggagaaagga gctcagtgtt tgacttcagg ctctgctgct tccctgggtac
16141 ctagtccctt ggtacctggt ccaagcagcc tggatacccc gggctccctgg gctgctctggg
16201 ccaggacagc cgccctagga taaatggaaa tgcagccctt gggcttgtt caccctcctg
16261 taatgccttc tctcttacct tttggtcagg gctggtgtc tctgcatgca ccagggctta
16321 gtgccatgct ggtacaagcg tggggaggat gcaggaggac tggcatggga tggggagcac
16381 tgcctgggaa gcccttctt cctggggcta ctgggtgct aagaaagtac cctaatagct
16441 cacaccacac tttgctttct ccttcatcac atgctaggac gctctagggc aattgagctg
16501 ttttccctt caccatcaa gaagagatat cggcctttcc gcagtcacag tctttcctaa
16561 ctcaattcaa actctgctgt tgataaggag ggctgtagcc agcccaggct gcccgcttcc
16621 cagcctcccc tgetccgct tccgcccccg aggetgtgca ccatgtgcag tgtctggtcc
16681 ccaataatga gattagtctt ggttgccctt taataaaacg cagtgggcac cgggagggag
16741 agcgatgctt ggctcagtga agatctgcgg gtcattgctt cctaatagcg ctgattgcat
16801 taagtggatt ctggctgcag gtagggtgag tgggtgggga cgagggtgac tctcacagct
16861 ctaagatcca gaaactgcca gagatctgtc accctcatcc tgagctgtca cagaggaagg
16921 caagtgactg tgtgaggggc tacgtgagct ccctctgggt gcaaggttct ggtctgcagg
16981 gcagtggagc ccttgggggt ggggagtggt agcttccagg ccttgaagct gctgccaca
17041 gttctgctct gagaacacag agggcccaag aacagccggt gtcccagggc tgcccagtg
17101 ggagggaaga gcgagagagt attcttgcgt tcaagactgg gaaatgaggg ccacgattca
17161 aagccttgct tcctaggagg aaatctcacc caatgtccag gtttgcaaat gcagcagaca
17221 catttgctggg tgggtcagat tctgtccaga gataccagaa tgtctatccc tgtaacccc
17281 cacctctggc atgggacagc ccttccctgc acacaaatgg gttatcaatt atgtccaatg
17341 aatggcctca cgagagtcct gttgcggaag ggatcttccg cttatctcct gtaaagcaca
17401 gagccacgct cagaacctac ggactgtggt cgctgcagg ccagccatgg gctttccttt
17461 catccttaca cttagatttt gaagcctcgc ctttgaatca gaagcaggct gctgtcattc
17521 cagaggccgc tgttcatctc tggttctctc ccagatgccc aggtgcctcg ggtgctggg
17581 ctgcctaggc cagggcaccc gccttaggag caaatggaaa tgcattctcc tggcttgtt
17641 tgccctcctg taacccttcc cctcttgctc tcggtcaggg cctgctgtct tgcacgcacc
17701 agtgcttagt gccatggtgg aaccgaggcg gggaggacgc agggaggactg gcacaggagg
17761 gggggcaccg cccgggagct tcccctgcgt caaagcagct tcctcagtga gctccaacac
17821 agacccttgc tggcctcagt ctctggaaaag actgacagca ccaccctagt tccctgggct
17881 tggaaaggcc aaagccacga gcaggcagcc actgttcggc aggagagcta gagatgctat
17941 tgcccacaga catcaaagca ggggtgccgt cttccgtgtg catgctggga cgggtcttgg
18001 agggccagat tagctcctgg cttgaacttg taccaccctt acctgaaaat tgggtctgta
18061 ccaaagctca tetgcacgcc ctttagggc agggaccagg cccctctgt gtggccctag
18121 cacctggcca agtgacggtg gctgcgggtt gaggtagct gctatttctg gatgggaatt
18181 tgggggctcg tgccttctcc tctttgagcc tccatttctt ggctgtcaa attggggcaa
18241 tgctcctggt atccacacag tgtcatttaa ggggtgacatt agagatggca tgaagtgcc
18301 agcacagagc aggtgctcac aggtgtttgg gtcccccccc tactgacaca ccaagcacac
18361 gtctgccctg ccatggtggg gagcaaacaa tgttatggtt ccgactcccc gggaggccag
18421 gccgggcatt tcaactgtagg atgttgaaagc cgcaggcagt cgtcgtctcg agaagagagc
18481 ctggctctga tgtccactgt cttccaggga gcctggtggg aaggaaggag tgggcagcgg
18541 cccctcgtct tgcgggcctc tccctgccct tgtactccac gaggtgtgag gaagttgccg
18601 ggtcaccacg cagagggaga ggtgatgtcc cctctgttct tcctaatttg tagctaatac

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FIGURE 3 (continued)

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18661 gattctgcct gcagccaggc tctctgggga tgaatctaataaaggaggcg gcgacctgga
18721 gaggaggaca gacaacaagt gaccaggggg gacagcactt ctttcagtac attttcctgt
18781 tagactcggg gtattagaga cccaaagata cccaaggagg agtgagagcg tccctgcctt
18841 cgaggagcag acagggcacc gcgagggtaa ggaggctccg ggagagcctg gggacagagt
18901 gatctgccac cgcggtgcct gaggagtggg ggcaggggtg tgggcccaca gcagggagcc
18961 aggctgggcc atgtccttgg attctgtgag cccaggcgtc tcctctagag ggcctagcag
19021 gaacagtggg ggctgcagat ggaaacgggc aggatcatgc catgcagtgt gcatttcact
19081 ggcactcggg ggcacttacg caggggacag catgatgttg ggagctggct ttgtccctgg
19141 catgtctgtc acgttgaaga gggagaagct gcaggccctg acttgggtgg ggcagtgagg
19201 atgctcagga ggggaagttag gggaggggtg ccagcatgcg gcggcctggg cagccttctg
19261 tggaggagct gaggtgtcac ctgggcccgg aagaagggca gccctgctag ctagtgggga
19321 gggcatgaga gaacttggcg acgatgggag agaaggtgac ttgggacgag ctgggtttga
19381 agcgtctgtg ggatgtccag gtatagatga gtagtgaacc gtcagaaatg gggcttgaat
19441 ttggggtggc ggggacagaa ctgatacccg tgtaggtgac agataaggac agaggcagga
19501 gttccaaaaa taggatttat tgttggctgg ggcttctgga atcccgattt cccgtccacc
19561 ctgggaatgt ggattggagc tatgtttctg ggagatgatt tgatggaatg tgtcagaagt
19621 ctaaaacaga acctagccct tgtttcagga ttccctgcag agaagtttgc agatgaccac
19681 atcctgttgt ttatttgggt gaaaactgaa atcgaaagct agctaaatgc tgaacaatgg
19741 gaactagtgt gctaaaaaat ggccgtgcaa tgcaagagtg tgaggttacg aaaatgatga
19801 tgtgggcgcg tatccattga cacaaacatc catgtgtgct acgccctcag ttaaaaagca
19861 ggttagaaaa tggataaaat gatcctgctt ctataaaagg atgcatatgt gttttaggaa
19921 gaaggtgtgt gaggatatag atcaaattct gatggcctgt cattttacct tttttgctga
19981 tccatattct actgcagtgc gtgtggatta ttagcacaca cacacacctt ttttttttta
20041 attaaaaaaa attttttttg agacagagtc tcattctgtc acccaggctg gaatgcagtg
20101 gtgcgatctt ggcccactgc aaactctgcc tcctgagctc aagggtattt agtgectcag
20161 cctcccaagt agctgggatt acaggtgtga gccaccatgc cgggctaatt tttatatattt
20221 tagtagagat agggtttcac catgttgttg ctggtcttga actcctggcc tcaggtgatc
20281 cactcgctt ggccctccca ggtgctggga ttataggtgt gagccatgc acccgccca
20341 cacacacacc ccccttttaa tgggtgagtt gccaacagtt gtccgatgtg gcagagagaa
20401 ctggggagca gagaaggagc ccatcactgg gagggactga aaaccagctc ctgggcactg
20461 cagggcagag cgtgtgccgg gtgtgaaggg ggtcagtgcc cctgtgctgg ccaactgtccc
20521 cctagtcttg atacagttgc tgccaggaga ggctggaccg tggcaagggg ccagtgggga
20581 accggggcgg gatggggggc agcagcagtg ctctggggtc tgcttgtgtg ggccatggtg
20641 gtggcagttg cagtggcaac tgtgggcat ggcagcactt ttccgtggcg cacaggccgc
20701 tgccgggtga ggggagagcc ccgcttgttc tcctcctgcc gcctctcctc ccatccccag
20761 ctgctgggtg ctctccggcc ggcataaagc tgtgcaggca ctgggcactc ccttgggctc
20821 ttagcggggc cttctcattg ctgcttcgct aggaaccacc cgctctcctt tcctcctgga
20881 gggccacgtg gggcgagcac ctgggacagc cgtgctgagc tctaccgggc ccttcgcag
20941 gcctcgtttc tgggggcctt cagttttgga aaacctcctg agggccctc tagagtgcgg
21001 gtccgccccg cccctggtgt ggaggggaag tgccctgtcc ctgtgtgctg acaggtccct
21061 gtgtgcagca tggtcggggc acttctactc tgcaggcgcg gccggggcgg gagcggggtg
21121 gggggcgggc gggggcggtg ggggagcggg gctggctctc ctgggtgtgg ggtggggagg
21181 cctcctcacc gccagcatgg agttaaaaac caggatgggg gagggagact tccatttct
21241 cccgagatgt acttcattg cgcgttcggag aaaaggtgtg accagccctt tccttccgt
21301 caaggagcgc gcttgctgt gtaactcacc tgtaaagccc acccagggaa ggccaggggc
21361 tcatgaaaca gaaaacaaag ccgggcactg ggcccttgag ctactagaa tttggggtat
21421 ctttccttgc accctcaccg catatggaac tcctggcgtc gtgtcccagg tcacgcctgt
21481 ccccggtggg aggtggggc cctccccca gccactccg agacttgaya cctctgcctc
21541 aggacgatgg gtgggaaggg gcttgcgggt aggagagcga gcgtgcttc cagcgggagc
21601 ctcgggggag ggtggcgggg ccgccgtggg aggagccgcg ccgcatctca ggcgcagtct
21661 ctaggggctg tgcgcatecg tgggggggac atgcgcactc caggggggct gctcgcactc
21721 gggggtgctg tgtgcactc gggggggctg tgcccatcta gcgggggtggc tgtgcgcate

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FIGURE 3 (continued)

21781 tggagggggc tgtgcgcaac cggggggggg tgttgcgcgc atctagcagg ggcggctgtg
 21841 cgcatttcgg ggggggctgt gcatactctg ggggaccgtg cttatctccg ggggcggctg
 21901 tgcgcattctt gagggggtgtg tacatctcgg ggggcctgtg cgcattcttg ggggctgtgt
 21961 gcatccgcgg gggctgtgcg catctcgggg tgctgtgcgc tgctcctctg agctctgctc
 22021 tttcttgagc cgtttgcctc agcatggagg gcggggccgc ggcagccacc cccacagcac
 22081 tgccttacta cgtggccttc tcccagctgc tgggcctgac cttggtggcc atgaccggcg
 22141 cgtggctcgg gctgtaccga ggcggcattg cctgggagag cgacctgcag ttcaacgcgc
 22201 acccctctg catggtcata ggcctgatct tctgcaggg aaatggtgag tcccatgggc
 22261 cgtcctctctt tcccgggct tgtgggggtc cctgagaggc agtttgagg ggtctgtca
 22321 cccctgcggc ctctctctgt tggacaaatc taagattcta gaaaagacag agacagaagc
 22381 tgggttcagg cctggggaga tggaaatcaa acccaggctc tgaggttggt gagtggcagc
 22441 tctctctcag cctggtccag ctttttcacc tcgtttccac acacagcate caaggcgggc
 22501 acttcttgca gcagagggaa aggaatgagg ctccgagcca ggcctgctg cagggggtgt
 22561 ttgaattgag ggaaaaaag taatcatatg tgagagtttg tatgctgctg tgctgctgctg
 22621 cgcattgtgt ttgttggtct tggacttggc agagctagag cgctccccc tggggcagga
 22681 gcaaggcagt gcttggcctc cactgcctc caggccaggg atccaggaag cgggatctgc
 22741 atccgggttg cccgctcttc ctagagggtg tctggtgac agccattcct gaggcagaga
 22801 aagctaagag gcattcctca cgtgacctg ccttgcctac ctctctctga cgcgggagat
 22861 caggctggga tcacaagggt ctgcttggga gccaggcgcc tgcttgcctg gaggtaggac
 22921 atctgcccag gcttaggtgg gggcctgtgt gaggagccac gtggctaaca ggtgaactca
 22981 gaggctgctt gttgcctcag tgtgaccaac agtggacctc aaacacagcc tggaaattgc
 23041 aggacacctg acaagaaggt ggggtggagg gggcgtctgc tgggcccggc agctccttta
 23101 ggtggggacg agggcagagg cgctgccttc actgcctgct ctggtggtgg ggaactgtgt
 23161 gcagcctccg gccctgccct ctttgtgcac agctggggga ggttggaggg tgggggaggg
 23221 gtggttaagg gcacacagcc ctaggtgccc tcagagaagg ccaggagctg cccagggtcc
 23281 ccagggaacc tggctttctc ctccggttcc tgcagctagg ctctgttac aagccgtcag
 23341 ctacacatcac ctctccacca aggtgcctcc ttgctgctgg ggcaggaggc ctacgcaca
 23401 ggcggatgca ctacgcttcc ctctctcacc tcccacagcc ctgctggttt accgtgtctt
 23461 caggaaacgaa gctaaaacgca ccaccaaggc cctgcacggg ctgctgcaca tcttgcgt
 23521 cgtcatcgcc ctggttgggt agtccccggg cgcggccttc cccgccacct gcctgcctct
 23581 tcagggtatgg caaacagcgg cttacactgc tctgttccct cccagagct gtgatgggcc
 23641 cgcgccccacc ccaaacatcc cctgcagggc cactaggtgc tggcagccct cgagctggga
 23701 ctaaaagccca gaagtccgc tagctgggtc cctgggtca tcttacacct tcttttcca
 23761 catccaaccc tgcctcata tgacctgtct ctggcccagg cttggtggcg gtgttcgact
 23821 accacaggaa gaagggtac gctgacctgt acagcctaca cagctggtgc gggatccttg
 23881 tctttgtcct gtactttgtg cagggtgagtc cttccaacac cccgggctg gggccacctt
 23941 ccagggaggt gggaggagga ggggagctgg gctgaaatgt acctcatgga agggcctgat
 24001 ttctgggggtg tgtgcagggt agagagctgc cttcccaggc ctgtgcgggt gcaaagctag
 24061 gattggcggc caagggtgcc cagctcccag gcgccccatg gctgactcag cacttttggc
 24121 cacaagccca gctttctgag tgtgccagg cctcaagcgt tgggggaccg gtcccttgtc
 24181 cctaagcgct tagtgctcct cccaccactg tgcagaggag gaaggaaacc aggcagggt
 24241 gaggggctca cagtcgccac gtgggcacgt ggggtgtggg ctggccgacc tgggtgctg
 24301 ggggtgtcgg ccgcctgtc ccggaaccgt ctctttcaa atcctagtgg ctgggtgggt
 24361 tcagcttctt cctgttcccc ggagcttcat tctcctgctg gacgctacc gccacagca
 24421 catcttcttt ggtgctacca tcttctcct ttcctgtggc accgacctgc tgggctgaa
 24481 ggaggcactg ctgttcaacc tcgggtgagt gtctgtgggt ggagagggca gggcctgggc
 24541 cacccttgca cagacctcac cctgccttca gcttcccag ctgtggcttc ctgagccgc
 24601 tctcgtggcg tcacaactgg tggctgtagt tatgcttgc aagatttggg tgcttggggc
 24661 ttggcttttg ttagctttct tgattttacc ctttcaaaga aacttctggg ctatgggac
 24721 cctattttatt cccaccagc agcaggatct gcaggacaac tgcttagagc tagaatattg
 24781 atctaggttt ttacattgcc catctctttt tgtctgtgag ccatagctgg agattgctgg
 24841 ttgggggcgg ggggatggtt gttctcttca ggcagggcag ggaggcaggg gctggtgctg

FIGURE 3 (continued)

24901 gaatcccat ggcatttta aggccagga taaaagggc atttggccta atttgaccc
 24961 cttgggcagc ttctcccttc ctctcaccct tgcaggggca agtatagcgc atttgagccc
 25021 gaggggtgtcc tggccaacgt gctgggcctg ctgctggcct gcttcgggtgg ggcggtgtctc
 25081 tacatcttga cccgggcccga ctggaagcgg ccttcccagg cggaagagca ggccctctcc
 25141 atggacttca agacgctgac ggagggagat agccccggct cccagtgatg cgcggggccg
 25201 gccctggggg ttccgggggt gtcttcttgc ctgcccctgc tgaggcgtct tcaggactgc
 25261 aggcctccgga gagtggctct ggcagcaggc gggcgcggtg gtgcagctgc atctgtttga
 25321 gtgctgcttt ctggggctag gtctccgctt cctctgcttc tcttttctcc gctgctatag
 25381 accagttcat tgtgtgtggc tcccggtgtct ctgttgcccc cttcagtgcga gaaggctttg
 25441 ggtaggactt cgggtgttcg gtccctggctg cagagcacag atctttaaag aagcgagaga
 25501 ggaggcccca cctcctggc agcagatgcc tggggcaagg ccaggggaaa ctgggggggc
 25561 ctccaggaca ggccctggaa ggccacgatg gctgctgaat tcaaaacaag agtccctcca
 25621 gcctgaataa cacgtggcac aaatggggcc ggcccttggc agaggagcaa gtgatgat
 25681 gtgtaaagta tgttgggtgt gaaagcaagg tccccagga gaggggaggg actggccctt
 25741 gggaaagctct gagatgaggc tgtggcccag ctgtagtctt gacctctctc ttctttaacc
 25801 ctttagccct aggatggctt tgggtgggaga ggggatagaa gcccatgact tcagacagac
 25861 tttctcttgg cagatgcagg cgggcctcct cccaggctgc tccagacatg ggggttgggg
 25921 atggggggca ccttgcagcc ccttctctgt ggggctccct ccttgtagca ccccccttgc
 25981 ggctcagctc tggtttctct tcccaggctc acccaggctc tgcctcaggct gggaggcaga
 26041 gggcacaaac cttataattt tttaaatgaa aaaccgctgc tgcctggctgt ggctagagcc
 26101 ccttggggct gctggagctg ctgctctgtt tctggaggac gaggcttctc cttatctgct
 26161 gcccatcttt ccaggaaagt aggatggagt cagaacaact acagtcatcc cccgtgggtg
 26221 ctgcacatca ctccagcccc ataaagagtg tcatgttagc tgagtacca tttggcttcg
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 26341 ctgactaaca aacacagtga aaccccgctt ctactaaaaa taaaaaaa ttagccaggc
 26401 gtgggtgttg gcgctgtag tcccagctac ttgggaggct gaggcaggag aatgggtgtga
 26461 acccgggaga tggcgcttgc agtgagctga gattgcactc cagcctgggc gacaggctca
 26521 aaaaagaaaa aaaaaaagac accgatcatg tgcttcttgg atctgggtgac tgttctctcc
 26581 ctgttttctt ttcttttggg gtgtttgagg agcatggctt agcttgagac acacacagac
 26641 actgtgtact tcagtgaagg gcttaataata cagtttccaa acctgacgac ttttcttctt
 26701 gtaatggctg ccttttctct acctgaggcc gtcttagaga aagggggccag tctctcttaa
 26761 tgctcagatt tcccatagtt ggcttttctt gtgtctctct cctcaggcag tgtcatttct
 26821 gggagcagggt ggttgtagt caggccccct cccagcaggg tctgcccagg ctcccttcag
 26881 cccctttccc cgcctctctt cagcctgtcc ggatgacagt gttcgcctcc tgttttagact
 26941 gtacactctt caggggtagg ggtgcctgca gttcttcaat cagctggcac acacttgtat
 27001 agtgaaatgt ttacatgtgg gaaaactccg ccttagacaa actaccaaag tacaatcgtg
 27061 tctctctcta gccggaatgc tacagagaga aatggaacct tagatttgca aaaaagtct
 27121 gtaaaactgg ctgtttgcca aagtgaacac tggatgacta aggagctgaa gaaggccccc
 27181 agaagcggat ttgtgggtgg ttattttatt ttgctgtgg ccaatcttct gtgaaatata
 27241 atgtgctgtt ggtgcaacag atgattcaat aaatgtctac agcagacctc tcgctgttta
 27301 tcttccctta ctgtggtaat aaaaggagcc ggagctttta gcagccagac acatgacgtt
 27361 agctctaggc ctgagagaaa ttgaatatcc gcaggctggg cacagaagggt aaagcgatta
 27421 gtgatattga tcatggccta ggggctgaaa agggccagcg gttgtccagt ctgacccag
 27481 cagaggcagt gttgtttcca catggttaga taagcccttt cctctcagcc tgagagggtg
 27541 gcctggatgg tggagctgca agagcctgat aagagccttg gcaaggaagg tccccagtg
 27601 tttaatggac ccttttccct ttgaaatcag tctttttgat ccttaagaag aggagcaaag
 27661 cttttggaac gagctgagat tccactttag atccacgtac gtggctcagg cagaagggtga
 27721 gtttttggca aatttgggtg ggatcgctact gtgcgctttg tgccctgtca cttaaagcag
 27781 tggccgccaa cctttttggc agcaggaaca ggttttggg aagacaattt tccacagac
 27841 cagggtcggg ggtgggggat agttttggga tgattcaagc acgttacatt tattatgcat
 27901 ttttatatta ttacattgta acatataatg aaataattat acaacttacc ataattgata
 27961 atcaatggga gccctgagct tgttttctct aaactagaca gtctcatctg ggggtgatgg

FIGURE 3 (continued)

| | | | | | | |
|-------|------------|------------|-------------|-------------|-------------|-------------|
| 28021 | gagacagtga | cagatcattc | gattctccta | aggagcatgc | aacctagatc | cctcgcatgc |
| 28081 | gtagtccata | attaataggg | tctgcactcc | tatgagaatc | taatgctgca | gctgactctga |
| 28141 | caggaggcgg | agctcaggtg | gtcatgctca | cccgtgctg | ctcacctcct | actgtgcagc |
| 28201 | caggttctaa | cagccacaga | cccatactgg | tctgtggccc | tggggctggg | gacctctgac |
| 28261 | ttacttaaa | caatttaaaa | actcaccaga | gctcactatt | taaagggacc | caacagcaaa |
| 28321 | tcctctaata | aggtaacagg | agtcacctgt | tccccgcgtt | ggtctcaact | ttgtcttctg |
| 28381 | cattgtagct | ggtctctaac | gtgtaggagc | cagaacggag | aggtctttcc | ttagggcacc |
| 28441 | tgtagagtcc | ctcctgaatc | aaggtctcca | tgtggacctt | tattttttatt | ttattttttt |
| 28501 | gagacggagt | ttcgtctctg | ttgccaggc | tggagtgcaa | tggcgcaatc | tcagctcact |
| 28561 | gcacacctcg | cctcctgggt | tcaagegatt | ctcctgcctc | agcctcctga | gtagctggga |
| 28621 | ttacaggcat | gcgccaccac | actcagctaa | ttttgtattt | ttagtagaga | tgatggggtt |
| 28681 | tc'ccatggt | ggtcaggctg | gtcttgaact | ccctacctca | ggtgatccac | ccgccttggc |
| 28741 | ctcccaaagt | gctgggatta | caggtgtgag | ccaccacgcc | cagctgagtg | tggaccttta |
| 28801 | tttactgaaa | agcattcaaa | gcacaaggct | tgatacatgt | cacaaactgg | ttcctcagtc |
| 28861 | agcatctcat | ttctgttttt | tttttttttt | tttttttttt | tgcaccagcc | tctgaatcct |
| 28921 | atgggtctct | gtgaatattg | aagtgatccc | agtcaccaag | ggatgatgcc | tcctctcca |
| 28981 | gccagccact | tcacctcttc | ctctacgaat | ctctggctgg | ataatagcag | ggacctcatt |
| 29041 | ttcttactgg | ggtcccaatc | cgactctctt | tgactgtggc | atagagttat | ttctccaaac |
| 29101 | aagcacgcgg | catttcccaa | gccatcctcc | tggaccacgc | gcctgcactc | cgtggggcgc |
| 29161 | cattcggggt | gcttgcctct | ttcagaccat | cccttctgag | agaggaggca | gcgtgggtgga |
| 29221 | gggaagagct | gtcagtgtgg | ctgattcaga | ggcctacctg | tgcctctgtg | acctgagca |
| 29281 | acttcagctc | tcaggatctg | cttctgcatt | tgttttggag | acagcagtg | cgtctgtcga |
| 29341 | ggtgtgagga | atacattagg | gaacacatgt | gaagtcctta | tcacagtgtc | tgggacacaa |
| 29401 | tggacctccc | aagaggatgg | cctgttagaa | tggactctga | gcaccttctc | ttctatgtgg |
| 29461 | gcctctctct | catcacaggg | ccttcacagc | atgatacctg | ttatcagtg | cccatcttat |
| 29521 | tcctgagaat | ggaataaact | agctgccaa | actccaagct | cctccaactt | gtttttaaag |
| 29581 | ctgaaagagg | gtgactccat | tccccgcgtg | ttcgccctacc | cattcccagc | cgaccgcagg |
| 29641 | ggagtttggc | caccatgtgc | acgtgcgtac | tgtgtctgcc | tgcagttacc | aaaaggtagc |
| 29701 | catgagcaga | tatccagggg | aagaaaagtct | gacttactta | gtgcttcgga | ggatctacac |
| 29761 | agacttctgc | tgagtttgc | gtttgcttct | actctgagta | gctttttatt | aaggttgagg |
| 29821 | gtaaattctt | tttaagaagt | attaatattt | taaatgaatc | actccttttc | ctttcctcca |
| 29881 | atgtcccagg | acttcttaaa | aagctggggg | tttggccagg | tgtgggtggc | catgcctgta |
| 29941 | atcccagcac | tttaagaggc | caaggcggga | ggacagcttg | aggccaggag | ttcaagacca |
| 30001 | gcctgggcaa | cataacaaga | ctccatctct | gcaaaaacaa | acaaaagtta | gcagggcgtg |
| 30061 | gtggcatgca | ctgtggtccc | aggtacttgg | gaggctgagg | tgggtgggtc | acttgagctc |
| 30121 | aggaggttga | ggctgcagtg | agctatgatc | acaccactgc | actccagcct | gggtgacaga |
| 30181 | gtgagactcc | atctaaaaac | aaaacaaaac | atctaggtcg | ggcacagtgc | ttatgcctgt |
| 30241 | aattccagca | ctttgggagg | ctgnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn |
| 30301 | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn |
| 30361 | nnnataaaaa | taaaataaaa | taaaaataat | tattatgcac | aaagtagtag | agtaagagca |
| 30421 | gtaatgagtc | caggaagtgt | tgttaccatc | tataaccctt | cttcactctga | cacaaagtag |
| 30481 | agatcgctga | aacctagcag | aatgaaaacc | atccctaaag | acaatgaatt | agaaagttct |
| 30541 | ggccaggcac | ggtgcctcat | gcctgtaacc | ccagcacttt | ggaaggccaa | ggtgagtggg |
| 30601 | tcacttgagg | tcaggagtcc | gagaccaacc | tggccaacgt | ggtgaaacct | catctctact |
| 30661 | aaaaatacaa | aaattagctg | ggcatggtgg | cagacacctg | taatcccagc | tacttaggag |
| 30721 | gctgaggcag | gagaatccct | tgaaccggg | agtgggaggt | tgcattgagc | caagatgagc |
| 30781 | caagatcatg | ccactgcact | ccagcatgga | tgacagagtg | agactctgtc | tcaaaaaaaa |
| 30841 | ggtcttttct | ggccagacat | ggtggccac | acctgtaatc | ccggcacttt | gggaggccga |
| 30901 | gtcaggcaga | tcacttgagc | tcaggagtgt | gagaccagcc | tgggcgacat | ggtgaaaacc |
| 30961 | tgaatctaca | aaaaatacga | aaaaaattac | ctgggtgtgg | tgggtgcacac | cagtgggtccc |
| 31021 | agctacttgg | gaggctgagg | caggaggatc | gcttgaaccc | tggagggttg | ggctacagtg |
| 31081 | agctaaaatc | atgccactgc | actccagcct | gggcgacaaa | gtgagacttt | gtctcaaaaa |

FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 31141 | aaaaaaaagt | actttttccaa | aatactttatc | caggccaggg | gcagtggctc | acacttgtaa |
| 31201 | tcccagcact | ttcggaggcc | aaggtgtgtg | gatcacctga | ggtcaggagt | tcgagaccag |
| 31261 | cctggccaac | atggcgaaac | ctggtctcta | ctaaaaatac | aaaaattagc | cgggtgtggt |
| 31321 | ggtgtgcacc | tgtaatccca | gctactcagg | aggetgagge | aggagaatca | cttgaacca |
| 31381 | ggaggtggat | gttgcagtga | gccaagatcg | tgccactgca | ctccagccag | caacagagt |
| 31441 | agactccatc | tcaaaaaaca | aacccaaaaa | acccgaaaat | acttctccgt | atcccactga |
| 31501 | aacactagtt | aaggatttct | aaggtaactg | agagctaaat | ggtgatttgc | cactcctttg |
| 31561 | gcttggtggg | gctggaaatc | cctttttatc | tcccatgttg | taatgagatg | tctttgctca |
| 31621 | ctcttttttt | tctttttctt | taaatctcag | aaggaggccc | caaccctgag | cacaacagca |
| 31681 | acctggccaa | tatcttagag | gtgtgtcgca | gcaaacatat | gccaagtca | acgattgaga |
| 31741 | cagcactgaa | aatggagggtg | tgtactgttt | gacatgcttt | ttattgatca | cagcctctac |
| 31801 | cgggctcatg | tctggatggc | caacaaacac | actgtaaatt | atcagagggg | ccaagtgcag |
| 31861 | tggctcacga | ctataatccc | agcacttttg | gaggctaagg | tgggtggatc | acttgaggcc |
| 31921 | aggagtttgg | agaccagcct | ggccagcatg | gtgaaactcc | atctctacta | aaaatacaaa |
| 31981 | aattagctgg | gcgtgggtggc | atatgcttgt | aatcccagct | actggggagg | ctgaggtgga |
| 32041 | ggatcgcttg | aacccaggag | gtagagattg | cggtgagccg | agattgcacc | actgcactcc |
| 32101 | agcctgggcg | acagagcgag | actctgtctc | aaaaaaaaaa | aaaaaaatta | tcagagagaa |
| 32161 | cggtagcaat | gtagttagcg | ccctcagcct | agagtcttct | gagagctcac | cgctcctggg |
| 32221 | cattggttct | aggagcacia | ctgggagtag | gatgcatagg | cagtatgcag | ggccatacac |
| 32281 | tcaagaccgg | gactgctcag | ccaagttgta | gggagatgag | gtattataga | aagaaggggc |
| 32341 | agtgtgggag | aaagccctta | cgttaggttg | aggaagtgtt | tgtttttcag | atgtttatgc |
| 32401 | cctaaaggag | aaaagccagt | agaaagggag | aggatggggg | tgatagagat | ggtgggaggg |
| 32461 | gcaggtatat | agagtccacg | taaggggtaca | cctttctctg | gggcaggtag | ggaggctctg |
| 32521 | aggaagtaat | agttatctta | atagctcaaa | attattgagt | gcttctctga | ggctaagcat |
| 32581 | ggataaaaaa | tctatgtgtg | ttatctcatc | gaatcctcaa | aaccaccgta | agtagaaaac |
| 32641 | gaggcacagg | aatgttaggt | gagttgactc | aagtcgcata | gaaaatgaca | gacttgaaac |
| 32701 | cagatagtca | gacttttagag | cctgtgctct | aaccgttatg | cttattgcct | tcatgtaggc |
| 32761 | catggtgcag | agaaggtggt | ggagacagca | actattttcc | ccacctagtg | gcccttttta |
| 32821 | cctttgtgaa | agaggaaggg | agaaagttatg | agttgagaat | tccctggaaag | ttgcaggaca |
| 32881 | gggtgcttgg | agtggggaat | attgaataca | tggacaaggg | atgagtaggg | gcatggaagg |
| 32941 | tccagaagag | attagtcctt | agagctctgg | attaattggt | tcaattttga | gaccatgctg |
| 33001 | ttttcagcag | ctcttacgac | aaggcctagg | tgtgtgatat | ttcacagcag | tactcagcag |
| 33061 | cccagggtag | ggaccttgag | acttgaccgg | tgggtttctt | acaggatggg | ggtgtaggag |
| 33121 | gatgagtctg | agtgggattg | ggtagggaact | agatgtggca | tttgggtagg | gatggtagga |
| 33181 | agcaaagctg | agagatggct | gatggattgt | tcagggaaccg | gagaaacaga | ctccttccaa |
| 33241 | gttaggggta | gtacttcctg | ttacctcaaa | agttggttag | aggggtgggga | caaaaaataaa |
| 33301 | gattgagagc | tcaggctcca | gcctagagag | cccatcccat | ggagttagtt | ttgcgatact |
| 33361 | tgtagtctctg | ggctgacatg | tgggaaggaa | ttgggaaaca | ggaaaatgtg | cttgtgttgt |
| 33421 | ttattgcaga | aatccaagga | cacttatttg | ctgtatgagg | gtcgaggccc | tgggtggctct |
| 33481 | tctctgctca | tcgaggcatt | atctaacagt | agccacaagt | gccaagcaga | cattagacat |
| 33541 | atcctgaata | agaatgggta | agtgtgcgtc | tgggaggagt | ggtaggggac | agagccttta |
| 33601 | tgtttccaatt | ctctgcaagg | caagtactgt | tgatctctgc | tagtgtttca | gggttttgtt |
| 33661 | ttttgttttt | ttgttttttg | agacggagtc | tcactcttgt | cgcccaggct | ggagtgcaat |
| 33721 | ggcatgatct | tggctcactg | caacctctgc | tttctgggtt | caagtgatcc | tctgcctca |
| 33781 | gcctcctgag | tagctgggat | taaagatacc | cacagccatg | cccagctaat | ttttgtattt |
| 33841 | ttagtagagg | tgacagggtt | tcatcatggt | ggccagactg | gtctcgaact | cctgatctca |
| 33901 | ggtgatccac | ctgcctcagc | ctcccaaagt | gctgggagcc | accatgcctg | gccatgtttc |
| 33961 | aggttttaag | cacacttgct | ccttagcaga | atctaataag | ttaattgact | ttcccttaat |
| 34021 | gtagtttcta | ctagcaggat | cccaaagact | tgttcatcgg | atgtagaagg | ggatcctttg |
| 34081 | cctattatcc | ccatctgtag | ccatataatg | cctaagtctt | aaaatgctcc | accaggactg |
| 34141 | gcatcttaat | ggcacaggaa | attatcagct | aagtctgctt | cctcccaact | gcaatcaggg |
| 34201 | cagaaaaatcg | agcgtgggga | cattcttggg | ctgttccctt | acccagcagc | agctgcattt |

FIGURE 3 (continued)

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34261 tctccttgag gatgcatct gctccatgtc tgtgtgtact tcatagactg ggtaagaaag
34321 agacagtgat agaattgatga gctttatgga ggctgagctt ctagaggcat ccactcatgc
34381 cagcctgttt ccttcctgtt cagaggagtg atggctgtag gagctcgtca ctcttttgac
34441 aaaaaggggg tgatttgtgt tgaagtggag gacagagaga agaaggctgt gaacctagag
34501 cgtgccctgg agatggcaat cgaagcagga gctgaggatg tcaaggaaac tgaagatgaa
34561 gaagaaagga acgttttttaa agtaagcatg aaaacatggg tgtttgggtg gcttccggga
34621 ggacctgat agatgcctta tgcattgcctc ttggtttctt ccttcattgtg cccagggta
34681 taggtgagac agttcacata ttgtacaaac atttattaag tgaatactga ataggaccng
34741 actctagtga ggactatgag aaagaaagag tcaaaancat tgaaaacgat gtccctgcca
34801 gtgaagagct caaaccagct gatccattcc agtactgaca ttcaggactt tgcaaggctc
34861 tgtgtggctt tgtctcatta cctcctggct cctcacctcc tgactttcct ttatccctag
34921 tttatttgtg atgctctctt actgcaccaa gtgaggaaga agctggactc cctgggctg
34981 tgttctgtgt cctgtgcact agagttcact cccaactcaa aggtgcagct ggctgagccc
35041 gacctggaac aggcgcgaca ttcattcag gctctcagca accacgagga tgtgattcac
35101 gtctatgata acattgaata accaggctac atgtgcccc gggttccttc ctagaaatgt
35161 ggcagcccat tccagcacac aggtctctgc agcaatctct gagggtaaag ccggtgggag
35221 gctcagcnag ccaggaggcc caaggacagg acttgcgacc ttgaagccaa aggaatctca
35281 cttgtggggc ctccttgtca gctctgctgc tgtctcagag ccactctggat gagtgtcccg
35341 acacctctc ggatgcaggg caggaccacc cagctggtca gactctgatg ttgggtagct
35401 ggctctgtg gggattgtaa gtgcctgag gcgctctgta ctagaaactg ctcttaataa
35461 taacggtgat tattgggtgc tgcattgctg ttgtatggct cttgagtctt cctgagtttg
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35581 ccaatcccag gattatTTTT ttaattggcc atagaaatgt agttgtatcc aggcactcca
35641 tgggtctgat ctgggtctac agcctaaacc tgcattcat tcatgcaact aatatttctg
35701 gaacactagc tatataccaa gaactgtact tatctagagc ataagctatt caactgggtg
35761 cctgtgttag atcctgctct agaaggtagg acctgaacac aggactgctc tttactggag
35821 ctgtcccagg gcagtgtgag ctgctgtgca agcatctgtt gctctcttg tgtgacttct
35881 gtgccttct ttcacaaac agcttaaggt tctagcccag taggaaatca agtgccagtg
35941 ataagggact tggcagtggc tcacacctat aatcccatct actcgagagg ctgaggcggg
36001 aggatcactt gagcccagga gtctaaggct acagtgagct atgattgcac cattgcattc
36061 cagcttgggt gacagagtga gaactctct tttttttttt tttttttttt tttttgaggn
36121 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
36181 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
36241 gtctgcttcc ctaggctttg ggaaatgcag gtatgcacag caggaatgtt tgtttagcac
36301 aaatctgatg tcaagaggaa gtggtctccc tctcgtctg tccctgaagt aaacacagag
36361 gtagcagtta aacaggaaag gctgcaggct cagtgtctgt ccccgcttc cccactcctt
36421 tttagatggg attgagtctc cagccagttg caggaaacct gccacttttc cattcacaat
36481 gcagctgcct agctctctat atggtgagga ctggagtctg accagatttc tgatgaaaag
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36601 agctgtgccc tctgctcgct accctctcag catgcagcct ctaaacacag ccactcaagc
36661 tggcagccca cctcagcctt ggctttggta ggggtggctg attgggtgca gcttcagcta
36721 caaaatgaaa caagagctca gtgctccctg ggtatageta gagagaaacc tcttccaatg
36781 aagaaaaagc ccccttttct caacaaatgt cacaggcctg tgctgacagc tcttagaac
36841 ggcgtctctt gtccacagct ctcttgagg cctaccacag tgtccaactc tgaggagagg
36901 aggtgctcaa taacgtgacc gagcaaataa atgcacaaag ggggtggtct gaatgtccca
36961 caagagacca agcaaatcat cgggaatttg gccttagccc taacctgccc aattcctctt
37021 gagggagggt gccccatca ctgcatctc aggagggtaa gcttaaaagc cagctccctg
37081 aagaggctgt aatggaagga gaaaagcatt acaacaccat ggttttccaa gtgttagcca
37141 tttataaata agtacatttg ctttcataca tacagtctct tgtacagatg acaatctgta
37201 tacatggggc aggaaaatgc attcatttga acttttcaca tctatctcac acagctcaca
37261 tgtacagaca ataaaactgc tcaagcaagt acagcaaagg aaaatgtctt tcttatata
37321 caggggtaga tgcctctgtg ggggtgtggg catcccactg cacggcttca caactgtgtg

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FIGURE 3 (continued)

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37381 gtgttcaata tatcaggaga gagaacaaac atgcattgga taatatactg tacagagaaa
37441 gtcctttaca tctgagtcac agaaaaccta aaggaaaact aagtgcatta aagctttttc
37501 cagcaagtgt cttgaaagga cagcaaagag gaggaagaat caaaatcata ttagtacaaa
37561 tcactcttta attgtagact gtacatgtct gtactaatta aaatcatctt ggatttggag
37621 gagacagaac agagacaaag atgctgtgct agatggaaag gaggccacgc ctgaaaaggc
37681 acctgccttg agcctgatga ggaactggcc tcactcagca ggaatcagcc aaaggaaaca
37741 aaaaacaaaa caaaaccaga acaggaagtg taacttacag gattttccaa atcacctgtg
37801 aatgaagtgg agatctggag ccggcatctc ttaacttttt tttttcccc agtaaattgg
37861 tatgcaataa ggcaggtaca ttcaagtact gaattttcca gaattaactc ttgtctggcg
37921 ctggggacca aagggttga gttgagcccc ctctaaccag actttctggt tagcgattag
37981 caaaagaaaa attcagccag caagtgtac aaaaacaaag cagctagggc acttcogttc
38041 cacagagtag gtctacctgg aaaaatgagc gcggcgctgg cctgatctct acgcgtccag
38101 cggcagcttg gcaagtcagc tcagcgtcgg tatcagagtc agcaggaggc aatgagatga
38161 tggggtgagg aaacatgaaa gtaacacttg atttttgggt tccaattatg cgttcatttg
38221 gtactgactt tcaaagctct gactgtggcc accatgtggc cacaagcatc tcagggtggc
38281 tcacctgctg tgaggctttg gacaccgaa'a tgaaggttac caacacttca gcccttgagt
38341 ggtctgtatg acaaaaggag ttgatgaaaa cccagtgatt attcaagtag ctctgcacag
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38521 gtagctcttg cccctaagcc ctttgttcat tgtgttagt catggtagat ggtcggctctg
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38641 acagccctcg gtgtggaagc agcagccggc tgcttttga ggtcggtttc ttgagaaatg
38701 ggcagcccag gaacagacag gcagggtgtg cgaggctgct gggcactggg agcatcaaga
38761 ggaggctggg cacaggggag ggcacctctt gccccctggg atagcctatt ccattttgtg
38821 gcaaagattc agtgagcact ggttttgtcc aaggcatttc tgcagtagaa aaataactct
38881 ctctgaatca aaccacccaa ctgtgacgct tctggagtta taaaagctgg aggtgagag
38941 gaactgacag gagggaggct catggggaag aaggggcttc tccatgtacc catccctcta
39001 ccagagcaag ggagctctgg tcaaccttct tccagcctct gcctggctga agtccaaagc
39061 atgtagtgtt caaagagttc gtcttgcaca actggcacag atgcacgaag accccttcca
39121 ggcctctgtt gccttctctt gaacctctga gcccgcttgc ctgttgccct ggaagcagct
39181 cctctctccc gaggggatgc cgctgttctt tgctacaaaa caagcgagc gcagagccac
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39421 taaactacta tacaatatta aggactgaga atacctttct ctaagctgtt ctgtttacaa
39481 taatttagga aaagtgttta ataatccagg cttaactaca ttagcaaact tgtatatctg
39541 gacaacgacc tggggtactg tacatgattc taattagtgg aattttctct agccatcgag
39601 tttagttat acacatctaa aaagaggggg cacatggggg aggagcgaga aggtttgtg
39661 ctctattaac ttgggacttt aatagtgcac gtctgcaacc cggacaagat acaacagcag
39721 atacaaaatg gtctccattt tgtcatgcca aattctcatg ttacacaggt tttcccttta
39781 ctttgtaaat aaacattaat tgttaattgt taattgtgtg cttactgat ccagtagata
39841 aagtaaccgt gtctcaggag tccctaagaa cattgctgga aaagcacttt aaaatcactg
39901 caaatatttt tcatattaaa aaattcttaa tctttttgat gcttatatac aagttatttc
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40141 tgatagaaac ccattagtgc aagaatcctg ggccaatgga acatacaact tggtgagaaa
40201 cctattaaac tgaagtttgt cacctctgtc ctccnnnnnn nnnnnnnnnn nnnnnnnnnn
40261 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
40321 nnnnnnnnnn nnnncagggt gaaagataat gtgttctgga gtcagttctg gtttcaaagc
40381 atgactttgc ttcttgctag atgaatgatg cacaacgaca ccacctctct tgccttcagt
40441 ttcataattt gtaaaaggca gataataata tccactttgc aaagttaaga gctattatta

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FIGURE 3 (continued)

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40501 taatatgaaa cactgtaaga gtactcatca gagagcacct cctgtagtag taaatgcttc
40561 acatttttcag ttcagtcccc tactccctca gggtttgctt tgggactaaa aaccactgcc
40621 acataggttaa gcatggaaag aataagctaa acaccaagtg cagagaaaaa gactcaaggg
40681 tcaaagtgga ccacaggctg accagaagca tgccaagagg ctactgtgaa agtaacctgg
40741 atcagcctgg gaactggatt tgggcacctc caagaagagg tgggnagana acagactgca
40801 ctgaaggggtg tgccaagtgc tgcctgagagg gtaggtcagc accttgtaag gaaaggataa
40861 gggggattcgg ganncnggaa ggctgaagcc tgaggtagaa cccagtgct ggcttccat
40921 ctngggacag tttggcttac tggcatatgt gtgtgcatgt gtgtgtgtgt gtgtgttagt
40981 gggaggggct aaacattgtc ttttctttct tcttttttt tttttttgag atggagtctc
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41101 ccacattcaa gtgattctcc tgcctcagcc tctcaagtag ctgggattac aagtgcctgc
41161 catcacgccc ggctaatttt tgtatttttg gtagagacgg ggtttcacta tgttggccag
41221 gctggtttcg aactcctgcc ctccaggtgat ccgctgcct cgacttccca aagtgcctggg
41281 attacatgca tgagccactg cgcacagcct aagcagtgtc tctgaacaca gaaggctgca
41341 caagaggaaa tgggctctga ttaatgtagg aaagactgca gtctgacatg aggaagaaat
41401 tccgctagaa tataagctta atgaagctct gctcaaggtg tctagtgtag tcagggtgtgg
41461 agaggagacc tggagcagga ctctcttaaa gggagatggg ggagccaga acaaatgaag
41521 gagaggcac tcaccccagg agcttcccgg caatcttggg gttgtagatg tcacactggt
41581 gcagtggacc catgtggccc gaggttttgc acagtgttct gtggaactgg aactggagca
41641 ccagactgag gaagtacctg gttgagaaac gtgagggcag gctggggagt ggagaccagg
41701 agtggcaaac tcagagccac ttgggaccag gcagctctga catgcagtgg ccacgagggc
41761 cccatgtcag cagtcaactgc ctgagcggag gctccttggg cagggccagt gcttgggctg
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41881 cttgcccccc tctgacctgc tctcctccaa gggacagcag ggatgggtga gaatattctc
41941 atcagctctg cctctacac tggacctgat gcaaaagctc aaaggattct aggtcagagg
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42061 acctagggcc ttcctgcaaa tctcaccccc agttcccatg cccctcaact ctaggactg
42121 gcaactgctaa cagggcccag acctttaccg tatgtagggc acaccagcag aaaagtggaa
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42541 agctgggatt ataggcgtga gccacncgca cctggcctgc ctttttctt tcaaagcacc
42601 tacgtgtcta tcaaaactgg acttggcagg ctgaggatac ctaatgcatt tttattgatt
42661 aaataaatga aaacacatgg gattgggaat cagagtaaaa caatagcagt taacactgac
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42841 ccctgcttgc atcctaacag tgggggacag attatagacc aataaacaag gtcatttcat
42901 ctagtaagaa gtcttgagaa gaaaaaagag taacatcact gtggggcagt actactatta
42961 ttcccatttt gcagatgagg aaaccaaggt ttggagatca ggggaattggc ctgaggacac
43021 agagccagtc acagtcacac cctgataacc tgaaggtctg tttttgcccc tctgagatgt
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43141 aaggaagtag gccaggtgtg gtggctcaca cctgtaatcc cagcactttg agaggctgat
43201 gtggaggat tgccttgacc caggagtctg agaccggcct gggcaacaaa gtgagacctc
43261 gtccccacaa aaaatacaaa aatgagccag gtgttctggt gcgcatctgt agtccagct
43321 actcaggtgc tgaggcagga ggatcgcttg agcccaggag gtcagggctg cagtgagcca
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43501 cttccctccc agttgacagg gccttattca aggccaggg agttgccacc cctcctgctt
43561 agccccaggg ttccatcagc tggggtgatg ggcagggctg acagaggcct cctgcagggtg

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FIGURE 3 (continued)

43621 cctcagatgg cctatgaggg tgaccttaga gaggcacgag gtcaagactc tgccaagccc
 43681 accaggggaga cctgctcctg aagtcaaggg tgggagttag aggacaaggg gaggagctcc
 43741 cagctctgtc acctgctcgt ttgctgtgtg acctcgggct ggtttgtgac ctctgtgagc
 43801 ttcagctggt gcttctgtga gctgagcgct ttgaagtgat cacaacgcaa ggtggttgta
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 44041 agtcccagct actcaggagg ctgaggaagg aggattgggt gaggctggga ggtcagggct
 44101 gcagttagcc gtgatcatgc cactatactc cagcctgagt gacagagcga ggccctgtct
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 44221 ccgaatcaca ctatgaccag cagactgaag ctggtcagtc cgcggcctgc cacatatgga
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 44761 catctggtgg aagatggtgc ccaacccacc tgaggttcca ccaactcctga ttgtagatgt
 44821 ccttccagat ggtgccgtca aagaccttc agcgaaacag gtccatcagg tagccaaagg
 44881 ggatgaaggc gatcttctcc agggcaatat gcacaggaa attgacctca tccctgaggga
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 45721 tctttcttac tccaggcccc atatccaccc agcaaccaag ccttttctc tcacgtcacc
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 46261 tctctggaag aggaggagag gggctaagag gaggctggag acagtctctg ccttatctg
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 46501 cgactcatac ttggagtgcc acaaggcccc catgtctttg tnaacctagg acaggagaga
 46561 ggactcacca ggagctcacc atctcacctt ttagccatgg cctagctgac aggataccca
 46621 gacgccttct agggaagcca ctcaacctcg ctgaccgtct gggctcttct tggcaaaacg
 46681 gggagaatac ctgcccattt cagaaaggca ctgagcaaaag tccatgatcc gagctcccca

FIGURE 3 (continued)

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46741 ccatgcctgc aaggccctgn agtccccctct tatcccacct catccttagc cctgtggcca
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46861 aggcctgctct tctttcacat cttgcttccc gtcttttgcc catctttcag gtcttggata
46921 aatgtcagag tnccttccct gtccacttgt ctgcagcagc ctcttctcat tctctttctc
46981 agcagcctct tccattcccg catcacccca gatggtagtg agagacaggt gtttactgaa
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47101 ctatgtgtcg tcagaacctc cccagcacct agcacctagg tgnctctatg aatatttgga
47161 gagcccagct gcagggtca taggtcctgt ctccnagggc cctacggcca ccttcaactct
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47461 cccacttgcc tcttccctca cctcctggc aataaggagg ggtggttggg ggctgggagg
47521 ggcccctgga agggactgag tgctggagat tctgtggttg ggtgggacag ggcttgggtg
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49681 gataccacga ctagagaaac tgaccaaata acccccctaa atgatccatt atgggtaaaa
49741 tataattata acatgaggaa agaaagaaaa aaatagtga acttctggtt aagctgatcg
49801 actgagctca caggaaagtc tcccttctct cttcaagcat gtagacagtc cattctcaca

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FIGURE 3 (continued)

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49981 tgggtggaagg cgaaagggaa gcaggcacat cttcacatgg tggcaggaga gagagagaag
50041 ggggaggcgc tacacacttt taaacaacca gatcctgaga actcagtcac tatcacgaga
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50161 gaggtcaggg tgcattccatc cagagagctg cagcattggg gtggggggat agctgatccc
50221 gatggaaatg gcgtctctgc caagctggga gcccctgcaa gcgtcagggt catgcatggg
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51481 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gaaagaatta ccccgctca ttcttgtcta
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FIGURE 3 (continued)

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53221 ctggaaacca acaacttttg agatttccct tgccctgttg acgccagct cctgtcatcc
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54121 ctgaggcagg agaatggcgt gaacctggga ggtggagctt gcagtgagcc aagatcnggc
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56041 gtattttctg cccatcatac tttgtaataa aacttgaaca tgtatagatt gactgaattt

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FIGURE 3 (continued)

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56221 attcacttgt taattcagtg gagcacctcc tctatgccag gggacatggc cctcaagttg
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57181 ggaaaaactga gagaccttg ggagaagcgg catcagcggc atatttgtaa agctacagga
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57601 ggagtgtgga agagactgtt ggcttgagtt agtcttgcta tttgcttcc agccaccaga
57661 gacaagtgc gcccgtttt ggttttgagg gtggagaggt ccgtctattt cgcagaatct
57721 aaattagtaa agaaatgctt ctgaaattcag gtccatgctc cctgtgtctt aatgatecct
57781 tcaaaggcca ctacttact tacttactta ccagacacat gggactggtc gcagccagat
57841 tttatggcag gaaactgccc ttctgcagc ccttccctaa cagagcagaa tgattcctaa
57901 caacagagaa cgaatgctcc tttgtttcgt ttcagttgct tagttgagtt gtttagttgt
57961 aagagctgat gtacagccag tgccaggcct gtgcccaggc tttgggtcca atgttcttgc
58021 tatccactca atagtggcct cgctcactca aaggtcagcc taccaaatga ccacgagacc
58081 tagaagatgt gtcttctaga caagcttcaa gatcagaagc ttgctgtcta tctcatgccc
58141 ccaccagggt ctgcaaaaaca gggctgaaag gggctcttct tcacctgaa acagtttttg
58201 ctgctgtgta ctttaaaata tcacactctc ataaacactc ctagaaaaag aaaagaaaca
58261 gttcctgtaa taatagataa tcaaactata gatctcaaaa tggaaagtag caacaacggg
58321 catgaccctg ggtggaaata ttgggactca gtctcatggt cccaagagat tccaatctgc
58381 ttctgaaaga aacaatttct gtatgacacc atctgggttt acaggaagag ggcactaga
58441 acaaaatctg gctgtagggt aagatccaac taacgggatt gtcacaccag ccagccttcg
58501 gttagagttt ccttttagtg gagtatgaca ctcagtgatg tatcaggatc taaaaagtag
58561 atgtctccag aacagacttc ctatagcctt tcaactgagaa tccagaacaa tcttttttgt
58621 tttctattgt attcattccc tccccaccc tggaaaagca gcagctttta gtggttaatt
58681 ttcggctaaa aatctagaga ataactctca gtgaattctc ttaatagcca caattctcat
58741 ctaatttctt tggtgactg caatatttaa agggctggct gtttttgaca tgttcttaca
58801 atgcctcttg gaaaatcaat gtagtgacat ttacataat tatattgggg ttttcttcca
58861 atttagcact taattcttct ctctctgatc cttttacccc ctaggaagac cagcaataat
58921 cetaatgcac actgcagacc tgggtggctgc agggcgctgg cggtctgggg aggggccaca
58981 gcatgagaat gcgctgcggc tggctgtgtg ggtgacactg gctaaggatg caaaggcaaa
59041 ggggcacgc actctttcta aggtttctag aagaaaacga acaagaacac cttatttttt
59101 aaaaaaggaa aaagacaatt acacaacaag aacatcagtg aaagcgattg tctcctggaa
59161 aaagctgacc agtgtgtctg atctcctcgg gttaaagcac acagcacgaa aatctcctcg

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FIGURE 3 (continued)

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59221 ttggcatctg aagagaggga gagagcatgt ggctgggcac agacaagaga aactgaagtc
59281 ctggctcccg ggaggccgct tcccagtcgg ctgcatgcaa aggatttcag catgtgggct
59341 gccacctctg aacaccacac agaaactaca tgagaaatta agccagagaa ctacctcgaa
59401 tgtggaaacc aagcctgaaa atgtgcagtg aaaacatatg ggtctcactc caacaaaacg
59461 tcttttaaac attagactcc acgaacggtc tctttggttt gataggggat gtctgccctt
59521 gccgagagtc tcgggacagc tgctgtaca ggttgctctg gtatgcctga gccacaggta
59581 gagtccgagc taccttcacg tcgggatagg aggaggcctg gctgactcgc tccaagaggt
59641 ctccacgaga cccgttagcc agcatcccat gggggctgta ataatcgtcc tccagcaaat
59701 ggccattctg tgcattgttg gttttgttat aaaaggcaat gttgctgatg gatgatgggtg
59761 gactgaagga ctcaggctga ggcaggttgc cnggagacgt gggactgagg acggtgtcca
59821 cagatgacac tgcccaggte cgattctgct ggtggagggtg ggggtactgc tgagtccgtg
59881 ctgtttttatc tatgatcccc atgaatgggtg tggctcctgga tcgggtgggc tcaactggggt
59941 aacctccttg agnttgnag acactggcga cagctcngtc acatgacctc tcatatgcag
60001 gtttcctagg gatctccatt tgcctggatgg aagaagatgg ccggaagggtc ggagttagggt
60061 tggagggtga ggagatacta ttgctagatg gagagaagcg aaggcctaca ctttgggaat
60121 gcagcaacgg cctgggagtt ggcgggtgcg gtttgatttc gttagggttg acactgatag
60181 gtcttctgat taaatgcgac acatcagggg aacctagttg gctggaggag cgtccagat
60241 ctagttttga gtgacagact gggtaatatg atgctgactg gctgcgtccg atctgtgggtg
60301 tctggctgta tctcaegcca cctcggtatg ctgaggaagg tcgctgtgga agatcctctt
60361 tggtaaatcc tccatgctga cagatggcgc ctgcaactcag gctggcttgg acatgctgca
60421 ccggccttcc atcccctacg attcccccaa ttgaccttg ataaaccaac cggctctggc
60481 tgactcctat gtctccttgt gaagactggg atttactggc cattgaatgg gctacttggc
60541 cataggctcc tgtggggatg acggtgcttg aatggacggc tgggctgggc tggttacttc
60601 tcacaatctg ggccttgga ggctgtagcc tgagcccttg ctggggaact gccacaggga
60661 gctgaggcat ctggtagggc cgctgggcca ttttnggata atggagattt gggctctgcca
60721 ggaagctgac tgacgcttgt ttctgtctga tagcgacgg gtgaaccaga ctgggatcta
60781 tagacactca tactttcagc tggagggtcg gcccgatact gagggcctct ccggagaagg
60841 gaagggggag ggcctgggta ttctttgccc tgctctccca caggaggggg gctgaaacgg
60901 taagatcctc cctgatgagc cggggaagtg tgtggtgggc taggcctgta atgtgagttc
60961 tgatgagttg gagaaagggc aggtgaggtg gactgatagg tctgtctagt gggagagcct
61021 acagaactac tggaccggaa gtcaaaaacc tgatgagagc caagaggtga gctggagatg
61081 taggctgagt cccgatgcgg gggagaggag ggtgggctct ggatgaccgg gagcccttgg
61141 ctgggcccgg cctctgtctg gaggccanat ggaaacattt tcaancatcc tgtntccagg
61201 tactcctcct cgaatatatc ctgtacagag tatatgtctt catgctgtgg ctcagggtct
61261 gcttcttccg gcaactgctg ctgaggctgc ggtggggcg gtggtgctg tggctgctgc
61321 atctgtctac actcttcttc cactctcagc agaagtctct ggatctcacg gttgttggga
61381 cacagcttga tggcctcggt caggctcctc aaggctgctg cgaactgtct gcttgacaaa
61441 atgtgaacac aggaactgga gttattctga atccagagaa atcaccaaga gctgagaaca
61501 tggtaactat ctcagagagc tgtggtggcg tctgtgggag tctggggtat ttcggtttag
61561 ttggatttat agggaaggaa acaggaagac tcattctgga agagtccgaa tgattcccta
61621 acccattcgg cctccatctt cctcttgccc tctctgggaa tagtgagaa atgccccatt
61681 ttgtcagtc angccaggcc ctccgggaag ttgttttggg gcccaaacac acaccaggca
61741 gtatgagagt tgggtggggt tgtcatttac agggctactg tcaagtagct taggaacaaa
61801 aaaaactaca tatttaaaaa tcttgtctga ccagcagaaa ttttcttta tattctcaat
61861 atttttagctc caaatttcag gcctgttcta ctctaggcaa gaacctgtc ctctgccctt
61921 tctaaccctc atctctcaga attgctgtgt ctccatttgc tctatcaaag tggggcaggc
61981 attaggcttg ctgactaggt cactcggggc tggagctgag ctgactccaa ggagactcta
62041 atttacaat gaagaaatga actgtcagag acattcccat cttctctact aatatcacct
62101 gacaggggca actgaccttg tgaaaaagga actnaccag aggnaangga gaatttcagt
62161 cagatttctg tgaggacttc gttgccccag ctaggtaaga gtgcgacac tgccaccacc
62221 atcactagcc tcaagctggg tgtgatttcc gggaccatgt gccctgggc atagcagtga
62281 acctgaagca gttctttccc atgcagctgg ggaggaggag ggcaggaggc ataagagaca

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FIGURE 3 (continued)

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62341 gtgacaagtt acacaaagat cactgatggc aggttctagg ttattctggg agcttttctg
62401 cccagtggcc aaactaaagc agatgggcac aaggaatgtg gaatgggtgt ctcttagagg
62461 gtccctccca tcctggcagc aaggacctct tgactctgtg tgtgtgtggt gggatgatgg
62521 ttaggtggaa ggggggtctga tgccaccaga cttgaggaga gcccagagg gaagactaac
62581 taatccggga ttccctcaaac gcctatggga gaaggaagag gaacctgtga tgttaagtga
62641 accatccctac tttccctcta aagcgggggt ggggtgctct gcttaagtga tttctttaag
62701 tcgccgttgt ctctttgtgc tagctgctct gggggttgaa aaatgcctga gatacggcag
62761 aggccttctg gaagaagctg ccattctcca gtgaaaaagt gtttttctcc cgaagtga
62821 cattcgtggc ctccacagcc cagcagattt gctgatcttg agctgagggc tgtgctatgg
62881 gagccatccc caaagcttgg ccctgacagt tctcaaggac agagatgtat ttgggtacat
62941 atgccccagg gtggccgacg ctgccctggc caaattttca gaaaagagac ctcttgcttt
63001 cacccctctc ctctctctcc acctgctgct gcgttttgcc ncttgntctc gcatagtaag
63061 cttcataaga tttcggtttc agctccaggc ccttagtagc aaattcctcc gccattccaa
63121 aatcctgtca ttacaatagg tgtgcaaagt agtcattgat gagatataaa aaatagacaa
63181 cttgggaata aaacaaatta tttgtacatt ttttgacatt catggatgga acgcctggga
63241 cgctagacgt gctgacatg gctcaagccg cgtggcctgt ggactgaaag ttccttctgc
63301 ctttgtcctg tgtagcgtg cgactgctca ctggacttta tctgccaga atattaaaat
63361 agttttaatt tccctcttt ttgcctttct aataaagttc tcagcccgga agccaaacac
63421 caaccctttc cagtgaagct cctgaagtta tccatgcatg taggaggcaa acgcacacat
63481 gtccacattt cacgtggacc ctggtctgag cccacacact tcctgctaca tgcactacac
63541 tgtggctttc taaggacag gtgagaaggt gtccgtgtaa gtccgggagg atgacgtctg
63601 taaaggaaac tgcactgact acagagacta gagggagagg ggggtgcaga cagacctggg
63661 ttcaattctc tgaccagctt cataaccccc aagtgtatag tgtattttct catccatacc
63721 taccocgggg gtaggatcaa gtgtgataca gtatttaaaa gccctgcaca gttcccggca
63781 catagtaggt gctcattaat tatcgtnttt ctttctattt cacagaggct tctctgatct
63841 gttccttttt ttaactggtt ccttancctta ggaaacactt aaaattaaaa ataaaaacaaa
63901 acaagagaag accccagctg tgactgaggt ctgtgctctc cctagaggaa cacgctcaca
63961 ggcattgcat tcctgagaac ccctggaaac agagactggg ggggtgggtg ggggaacaacg
64021 ccgactaggc agnccatagg ttttcagtat tcccttaaat actaagctaa aagagaaggc
64081 tttcccttcc ttttagtgtc aaagccacag tatagcatgg tagcctctgg ttatggtcac
64141 gagtcctaag gcagaaaaca aggccttggg cagaacaaag gccctggggc ataggtaaaa
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64261 cacagtattg gcccaggagg tgattaacaa ccgcttctga acaaatgtgg agctagaaaag
64321 aatttcagct tttatgggtc accctctccc tgcctctgct ccagccttac ccttttattt
64381 gttcttttgg gacctcatt attcctaaaa atatgagggc atttttaaaa agtctattat
64441 ttggtaggga aaagagatca gtgggttggc agcaacttct gagctttgcc tcatcctcat
64501 cggctggtgc aggggaggcc ttggtgctgt tcccttcatt tcacaggaga ccccaagagc
64561 atgaaaatct gtctcccgag accgccacct tctcccttcc cggggttggg gggcctcttc
64621 cacatcccca ctccctcag caccctggag caactctgcc tctgagggcc atggcgttgt
64681 tctctgagac agtcagggtt aactctgcct ctgaaggtea tggctgtgtt ctctgagata
64741 ggtttaactc tgcccttgaa ggtcatggct gtgttctctg agacagtcag gtttaactct
64801 gcctctgaag gtcattggta tgttctctga gacagtcagg ttttaactcag gttccttcca
64861 gtgtcagggt ttagggtctg gaatggatga tctaaagggt acacacacaa atctttctgg
64921 aagatccctg gccatgaggt tcaaatcttg cttctgtcca gctgagtttt taattgatca
64981 atacatctgt ttggttgga ttatttttat ctctgaggga actgtgagac ctcatgcagg
65041 tagatgtcag agactcctga cacaatctta gctatttcca aaacctgaga gagggttctt
65101 ggcttgaggt gtcttcacgt taaaggcag tggtgagggt agcagtgtct ggggacatgt
65161 gagatgggtc tgcaaggtag ccaggaagga ccgtggctta ccagggaaac aataaaggtn
65221 cagggggnat ttctgacatt cccctaggga caagaaggga catagcatgc tgggatacaa
65281 aaatgaggaa agaagcgaaa agttcgatag cctcaaaaat taaaccttca aaacctggt
65341 ccacccctc tccttacctc ttcttcaaat gataagggaa tatacctgaa attaatgact
65401 acaattcaca tctaattgca actggaattc tagtgaccac tgccttcaca tttcccnnaa

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FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|------------|-------------|-------------|-------------|
| 65461 | agaccagaac | actgacttgg | tggtatgggg | gtgggaaaga | tggtattctc | atcactttca |
| 65521 | gttaaattat | gaacattcag | aaagctgcaa | agtactcgca | gcattaattt | ctgtacagtt |
| 65581 | tgagatacag | attgtactta | gacttgattt | ctttcaaatt | gcaaagtgtc | gtgctctgtg |
| 65641 | aaggacaacc | aagttccaaa | tggggcgag | gaggatttca | ggggcctgg | aaaagctagt |
| 65701 | gagtgacaca | ggctatcagc | taccaggatt | gcagaaagga | gttgggggtga | cagggactta |
| 65761 | cgttcatttt | cctgcgcac | cgagagaggt | tgaggaggag | agacaccttt | agttcccgg |
| 65821 | aagttttcaa | gtcctcacca | aacctttctc | tagggaactt | cttcagggcg | tactggtagc |
| 65881 | gctgggcagc | ttcctttact | ttacctttct | aatgggagca | caagatggcg | aaacacacag |
| 65941 | ttggtctgct | gaacagctga | ggaagtgtgg | tccccactcc | cttcttcttc | tcagcagctg |
| 66001 | ttactaagg | ctaaccctcc | caaacgccag | cctagagagg | agttctggcc | ctgatgggtga |
| 66061 | gggcagaagg | gtctagtctt | ttctatagga | aactcacctg | gcaggaaagg | caaggttgag |
| 66121 | gggataccca | agatacaagc | cagggagcaa | agccttggca | aatggaaggc | cctggaccct |
| 66181 | gacttcccaa | ctggattcca | aagaggctga | ccatgctcat | ttcaaagttc | ctttgctctc |
| 66241 | tataacacat | atgacttcct | aaccccaagc | actccaaagt | tattacttcc | tccttaattt |
| 66301 | ctggcttgct | tggagaactg | tttttttgg | ctgacgctcc | acctggccag | ccctctagaa |
| 66361 | gtcactctct | tctcatgaa | ggatgtggga | gctaaagcag | tctagcagtt | gcttccctaa |
| 66421 | tctcatggca | taaaataata | ccaatcagtg | ttccccattt | ttggaaaggc | atggagtagg |
| 66481 | gtggcagtag | aaaagtgaag | tttagagttt | gtgattccat | ctgatgttgc | aggagggatt |
| 66541 | atccaagagg | aagtaaatct | atgaccaatt | tagagatctg | gccacagcga | ccttgaactt |
| 66601 | ttcttccact | ttgtatctga | aaatctataa | gctgagacca | gaaagatgca | ggcggcatct |
| 66661 | cccacccett | tagctgatct | ttatccactc | tattccttct | ctatagttac | aactccacag |
| 66721 | ggatcccagt | cttttacttt | tcccttagca | ccattcacta | aggagagatt | tggagtcttt |
| 66781 | caaggtagaa | ttctgagggg | aacaataatg | gcaactgcata | ttttcattaa | gaggactcct |
| 66841 | cgcctcagaa | taccagaagt | tatgcnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn |
| 66901 | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn | nnnnnnnnnn |
| 66961 | nnnnnttttt | tttttttttt | tttttttttt | tttttgtatt | ttagtagaga | cggggtttca |
| 67021 | ccgtgttacc | caggctggtc | gcgaactcct | gagctcaggt | aatccgccc | cctcggcctc |
| 67081 | ccaaagtcct | gggattacag | gcgtgacacc | gcgcccggcc | agttttactc | ttcttaaata |
| 67141 | tgatgttcat | ggcataaagc | aggagtagtg | gctttaaata | tcactagcca | cagctttcag |
| 67201 | ttgctctgat | cgctatcatt | cacaactttg | agtaaaagga | agaaagaaaa | ttcttccaac |
| 67261 | tgacttattc | aactttcaaa | aatgagtttg | ttgcaatgcc | agtttaaaag | ctcccctact |
| 67321 | acaccgtgct | tctataaagg | attctcaaat | tgatgtatgt | ccagcaagac | ttactactaa |
| 67381 | aggtcacaca | actgtactag | cacgaaacaa | gccaaagagat | aaggccctgt | catccttctg |
| 67441 | tgttcaggaa | acaacggcgg | gatcatgcc | caggccaaga | tttccaaaga | gattgcttta |
| 67501 | gagagaatgg | atatcaggaa | gcaagagcaa | cagtaattct | ggcagaagg | ctaggatcca |
| 67561 | tgagtaccgc | gggggggtng | ggagtggggg | gcggggaagc | ttgtacaata | gatcgtctta |
| 67621 | atagaaatct | agtgtggcca | ggagtgcacg | accaccaata | gaagcgctg | cattttcctt |
| 67681 | cacagctatc | actctctctt | cccttccccg | cccaccaacg | aaagcaatgc | ggcaggagtg |
| 67741 | gagagcacgg | gatgaataaa | tggagtatct | ttggggcgta | aacccggttt | taagacctgt |
| 67801 | ttccaccccg | aaatagctgc | ctgacccagg | caagtcacaa | aaccgtgctt | cagtttcccc |
| 67861 | actacactgc | cgactacaca | agaatgctgc | ctggattaaa | ggagacagac | aacgagtacg |
| 67921 | aaaccttcag | cacagggcca | gacagaggaa | ccgctccgtg | gccctagggc | gagtcgcgaa |
| 67981 | gagggttctg | aggcctgggc | tccggcccgg | aaangggcgc | tccgggggcc | cgctccccgc |
| 68041 | cagctgggtt | ccgagccctt | gcccggccca | ccttggtgtt | gtactcctcc | acgaagctgc |
| 68101 | ccagcgccaa | gegaaagcgc | ttnatcgggc | cgcacactcc | agttcatcgc | gtagactgtc |
| 68161 | cagggcgctt | catacttgta | gatctccttc | cgtttgccgt | gcagggacat | ggtggccacg |
| 68221 | ggngcgcagt | nacgggcggg | gtcaacagtg | ggctgcggcg | ggcggggagn | cgagcctgag |
| 68281 | atctatgggt | ccgaaggag | gagaggagg | ggcgggcagg | aacggcctaa | cccgaagcgc |
| 68341 | gggatgcggc | gacaaacaac | gacgacggcc | gagcccgacc | cctagtttca | aaccgaactg |
| 68401 | ggaacgggacg | acaaccacct | tcggttttgg | gacgcggccc | cgcctctctg | gaacgggaagc |
| 68461 | cgcgggaccc | ccgcagcggc | accggccggt | ggttgctctga | cacgtccttt | cgaaaggatt |
| 68521 | ctttcttctg | attgggttatt | gcggccgtag | cgtctgaaat | ctcctcgcta | ttgggttaaa |

FIGURE 3 (continued)

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68581 tgtttgtcat tgcaactact cgccccgccc aactctcgga ggcaggcgct ttggcagccc
68641 caaaggtcat tggttggcca agatgtcagt caggcagata acggctcagt gcgggtggtg
68701 ggggcgtggg tggcctggag gcgagcgtgc tgtagcagcg ggccccaag ttctaggcca
68761 agtctctgag agtgaacccg tctgtgacct gcgctgactt cccctccgct gctgctgttc
68821 tgagcggcct ctccacgctg tcgagtaaaa gtacaattct gccttagtgg aagacctact
68881 gacttttcgag ggacagagcc ctgcggcctg gcagncctgg cctgcgccc aacgggtacca
68941 ccttccccgcc ccattctctt ccaggggccct ttttaaccga aagctgctct ctccgtgect
69001 caggacagag cttcggggcg gcagatgcgc tcaggggccag gccagcttga gtcaggccct
69061 cccgcgcttt cctgcaggat ctagaaatgt cccgaattc tggggtaggc accgaccga
69121 ccagcttggc tctgtttttg tcagttccca tctgtacct ttcccgcct ggatcccaac
69181 gcaaatgcta atccagcccc aaaggtatct gtgctgtga gttggaaaag gggaagggcc
69241 agagaccaa tgacacctt atataaatta ttccaattc tcagctttca tcaaatga
69301 aggaggtttg tattgaattg ttggatgata acatntaaat acttttttt ttttttttna
69361 aagacagggt cttgccctgt caccaggtg ggagtgcact ggtgtgataa gggctcactg
69421 tagcctggac tgctagggt caaacgattt cccacttta gcctctggag tagctggaac
69481 cacagacatt tgccaccaca cctagctatt tttaaattat tttttgtaga gatgagatct
69541 ctccatgttg cccaggtgta tctcgaactc ctgggctcaa gcgactctcc cacatcagca
69601 tcttaaagta ctgggattac aggtctgagc caccattctg ggcaactaat ataattttta
69661 atgataaatg atttttccac ctcccaggtt caagtgattc tctgcttca gcctcccgag
69721 tagctgagat tacaggggtg caccaccaca gccagcta at tttgtattt ttagtagaga
69781 tggggtttca ccattgttgg cattctgggt tcgaactcct gacctcaaat gatcttccag
69841 cctcggcctc ccaaagtgtt gggattacag gcgtgagcca ccgcatctgg ccaagaaatc
69901 ctcttttttt ttttaatttt ttttattttt gagatggagt ctactctgt cgcccgggct
69961 gtagtgcagt ggcaactatc cggctcactg caacctctgc ctttaggggt caagtattc
70021 tcttgcttca gcctcctgag tagctgggat tacaggcgcc cgccaccatg cccagctaaa
70081 ggaaatcccc tgtaaggag aaagtttaaa aacaaattta aaaaggaaag aaaaagacgt
70141 acaaaattcg cgttacctgt cttattctaa taaaaaatat gatatttatc cacagatata
70201 ggaactaacg gggggagaaa attttctctt ttatgacgta ttttccaaa aaaaatttta
70261 gtttttatta gaaaattgaa tatatattta tgttgtttt aacaactgta ctactaatag
70321 atgtaaccct taaagcctta ttaaggttac aaaaattaat tttaaaatgt caattaattt
70381 atacacattc gttttgaggc agggctcttg tctgttatcc aggtgggtgg gcagtggggc
70441 aaacagtgc tattgcagcc ttgacctccc gggctcaagc aatcctcctg cctcctttat
70501 tttttgtaga gacaagatct tgctatgttg cccaggctgg gttcaactgg tctcccacc
70561 tcagcctccc aaaaatgctg gattataggc atgagccacc ccatgaccga cctacttttt
70621 ttttgaaacg gactcttget ctgttgccca cgctggagtg cagtggcagc atcttggtc
70681 actacaagct ccacctcctg ggttcacgcc attctcctgc ctcagcctcc cgagtagctg
70741 ggactacagc acctgccacc acgcctggct atnnnnnnnn nnnnnnnnnn nnnnnnnnnn
70801 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn
70861 nnnnnnnnnn nntgggttgt nttttcattt tctttctttt tttttttgag agggagtttt
70921 gctnttggtg cccaggcagg agtgaagtgg aacaatttgg gttnaaaaaa atttttgctt
70981 ccccggttca aggcaatccc ctccccacc ccccgagta gctgggataa aaggaatgaa
71041 ccacaacgcc tggctaattt ttgtattttt agtagagatg gggcttctcc atattggcca
71101 gcctggtctc gaactccga cctcaggcga tctaccacc tcggcttccc aaagtgtctg
71161 gattacaggt gtgagccact gtgcctggcc gtcttttcat tttcttgatg gtgtcattga
71221 agcacaanaa ttttaattt tgatgaagac caatttatct gtttttctt tcatcactta
71281 tgcttttggg gtcatatcta agaaaccatt gactaatcca aggtcacaaa gatttattgc
71341 ctatgttttc ttctaaaagt tttatgatt tagttcttac atcaaggtct attttaagtc
71401 ttttgttttg tttttgttt tttgttttga gacagggtct tactctgtca cccaggctgg
71461 agtgcagagg cacaatcag gctcactgca gcctcaacct cttggcctca agcaatactc
71521 ccacttcage ctcccaagta gctggattta tagacatgcg caaccatgcc cagctaattt
71581 ttttgtagag atagggttt accatattgc ccagactgg ctcaaactcc taagctccag
71641 tgatccgccc acctcagctt cccaaagtgc tgggattata ggcagtagcc actgcacca

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FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|------------|-------------|------------|-------------|
| 71701 | gccccaaatt | ttgtatatgg | tattagaaag | gggtccaact | tcattctttt | acatgtggaa |
| 71761 | atccaattgc | cccagcacca | tttgttaaaa | atattttctt | tcccatttaa | ttgtcctagt |
| 71821 | gttcttgtca | aaaacaattg | aacataattg | tatgggttca | tttctggact | ctcaattcta |
| 71881 | ttccattggt | gagcatattt | ttaagggctg | ttttctctc | ctgtggtaac | tggtagacctg |
| 71941 | tacttcctgg | aagagagatg | aaaagattcc | caagccaact | gagttacctc | acgtgggtca |
| 72001 | gggtctctgtg | gctctctgca | ctggcctatt | cataatgata | tcctcctgca | ggatttgagc |
| 72061 | cttctccttt | gttgtgacgg | cagccgagga | ggtygctgac | tgcccagaca | gccttatctc |
| 72121 | tttccctacct | ttcaagggtta | ttgtaaatac | caaattagat | tgtttatata | caagaattta |
| 72181 | gcactaaagc | actatacaaa | tgtaagctat | ttattttctat | ttatccttct | ccttcctgaa |
| 72241 | taagacccta | aaaatagaag | atatttttaa | tttttactca | ctgggctcaa | ggttgcagtg |
| 72301 | tcctgtattat | tgcaaatccc | aaattaatga | agtctggctc | ttcttatatt | attcctgcaa |
| 72361 | aaggctgtgt | gctcaccctc | cggagtgtga | atacagagtgt | gggtcatttc | ctcttctctc |
| 72421 | tgcacccttc | cttcgatgag | gttttgccct | gtgctaggca | ccatgctaaa | ctctgagaaa |
| 72481 | accacagaga | acaaggcaga | cgccatccct | gccctccagt | aacatacaat | ttagtgatga |
| 72541 | agctggggga | tttaacaagc | cattctaata | aagcgttaca | gtgaggagg | tgcagggtga |
| 72601 | tgccctccagc | agccctgggtg | tcagctgctc | caggctccagg | ggaagacttc | cattatcttc |
| 72661 | caaccctgtc | ggaagtggag | gcggaggctg | tttattgctg | acacagtncc | ctaaccagg |
| 72721 | gtctatagac | attgtggaaa | tgccctggag | tcagacggga | gaatgaacca | gcagaagcaa |
| 72781 | tgcccgccct | ccaccctcct | gaagagggtt | ctcaggaact | ctttggaggc | gaggccagcc |
| 72841 | tctggntgna | gnggcctctg | gatacagggt | aggcctcagg | ctcttctcct | ctctactcat |
| 72901 | ctctcctccc | ttnggcccc | ccttcagagg | ctgacagagc | cccactctca | tctcttcccc |
| 72961 | acccaagcct | ctttccacag | aaagactgct | tcctcccagg | agacagcagc | tcatttgcac |
| 73021 | acagacaccc | acagccctca | aagcctggaa | ggccaagctg | ttaggacccc | tgagagcagg |
| 73081 | gtggctcctg | ggaggagagc | ccaggccacc | accttgccct | ccctggcccc | tgcccttncg |
| 73141 | atggggctgc | tctgatcaca | aacgtccacc | aacgtagccg | gcccagaagt | gcaccatgt |
| 73201 | cctctggtat | ccactggctc | tccaagccaa | actgggcagg | gaggagtgtg | gagggaanaa |
| 73261 | tgcagggtcag | gagggaggct | ggcaaagcgg | gccagggccca | ggcctgaccc | cagctctcct |
| 73321 | ctcccgcccc | cactgcccgc | cagtgtttaa | caaggccctg | ccttctccct | ctagtgtctag |
| 73381 | ggacagccac | cttcttctc | ccccaccgc | ccctctccc | ctgcaacacg | tcctctgaca |
| 73441 | agtcagtgcg | atctcactgg | aggtgcatct | cacaggaacg | cggggtcaca | gcctcctgca |
| 73501 | cacactccat | gctgcacagc | aaggtgcacg | tgtccctcag | agccccagac | accatcccc |
| 73561 | actcaccag | aagcccaagt | gattcccaac | agccccagc | agcctaattg | gttggggctc |
| 73621 | tgggagcagc | tgtccctggc | tccttccctg | atcccaccgc | ccagcctcac | cccacggttc |
| 73681 | ctccattgcc | ccacctccca | ctgcgcgcgc | gggcctctgc | cagggtcaag | gggcttcccc |
| 73741 | cctctggcag | cagacgccat | ggtgcgcagg | tggcctccac | aaccgccttg | tgcgccaata |
| 73801 | ggacaagacn | tgtcctccct | ccccacact | tgtcactttg | agggacacgt | ggatgagaca |
| 73861 | ggaaaacaca | ggggagtgtg | gagacctgag | gtgacttggg | gcaagcctct | caacctgagc |
| 73921 | ggcaatttct | tcatctgtaa | aatngagggg | gttggttctca | tctctgagge | tttgtgtcgc |
| 73981 | tctcaaagcc | tgctagcctc | gggttctagg | actctgttgg | gatcgtgtgt | gatgttttct |
| 74041 | gctgagcgac | tggcagcctg | tgtcctcggg | gggaaagagg | gcaggcgctc | caaagctcct |
| 74101 | gcgctctgtg | gtcctccctc | cctgcagacc | ccaagcccca | ggtgtgcggg | cgcccttgag |
| 74161 | ccccctccagc | acctcccga | ggcgcttga | agacacctaa | ggtccccgcc | tcctcctct |
| 74221 | cccccccgcc | acaccctac | ccccggcagg | cgacgtcccc | gccctcgac | catggcctgg |
| 74281 | tgaagaagcc | ggccaggccc | gatcagcccc | aaccgcggcg | cacgagcggc | gnctgnccga |
| 74341 | cagctcctgg | ggccccggcc | ttgtcactcc | ggaggcgagg | ggctccgggg | ggtcgggctg |
| 74401 | ggaagatcga | gccggaggcc | gctaggetnc | ccaggccccg | gccgangget | gcgcgccgc |
| 74461 | acggtgggca | ggctcgggtg | nttcgggcaa | actgccgggt | ccccnatctt | caaaagagag |
| 74521 | gaggcccttt | ctccagcttc | ctctgcggga | gcccgaacca | gccccatccc | gcccaccccg |
| 74581 | ggctgcacct | cggccccntc | ncncgggnc | ncgcgcccc | gcccggggcg | ggccagnгаа |
| 74641 | ncctcgcccc | gcgcgctng | gggactttgg | agcggaggag | gaagcgcggc | ggggcggggg |
| 74701 | cgggggtgtg | tcggttttta | ntaaaccgca | gggcggcgcc | ggcgaggag | aaggggcaga |
| 74761 | gccgagcacc | gcgcaccgcg | tcatgggggg | cgccctcggg | cgccgggggc | cggggctgct |

FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|------------|------------|-------------|------------|------------|
| 74821 | gctgcegetg | cegetgctgt | tgetgctngc | cgccgcagcc | cgccctggcg | ttgngnaccc |
| 74881 | cgggctgcag | ccngaaact | ttctngctg | acgaggccgg | ggcgagctc | ttcgcgagga |
| 74941 | gctacaactc | cagcgccgaa | caggtgctgt | tccnagagcg | tggccgccag | ctgggcgcac |
| 75001 | gacaccaaca | tcaccgcgga | gaatgnchna | ggccaggtgg | cgcccgggcc | cgggcggggg |
| 75061 | cggggcgggc | cgcgcgggcc | aatcacagca | cgcgccgggc | ttgtggggnc | gggcagnntg |
| 75121 | gcgcccccg | acccgaaccc | caccccgacc | cgccgacctc | gccccgacag | tcagccgcgg |
| 75181 | ggcccgagcg | cggggtgctg | cgcacggcct | gcgctcccag | catgcacgag | ttggatggat |
| 75241 | gaggggtggc | gctcccaggc | cgcgcggcgc | ttcgccgaag | gtgctgggct | tggctctggg |
| 75301 | gcccccgcg | tctcgggcag | ctgccttctc | acctccggac | gctgtcgctg | tcaccgtcac |
| 75361 | cgcactgcac | tgtccatcca | ccctccactc | cgccggcctc | ttttctgggt | ccaatttctg |
| 75421 | ctccaccatt | cccattgagg | agattccctn | ccagaaggag | gaagcgcggc | ttccgcnaaa |
| 75481 | ctaaggtctc | cgcagggat | ncctcccgag | gcccgggctc | tggagccct | tggccttctt |
| 75541 | ccccccccc | agcaccgtgg | cttctccttt | atggcctgca | tctanagcag | ggtcctacac |
| 75601 | cctccctgcc | ctcctgggtg | ccaataggag | gaagcagccc | tgctcagcca | ggagtnttgc |
| 75661 | nggaggcctn | ggggcagnaa | ggccaangga | gctgtatgaa | ccgatctggc | agaacttcac |
| 75721 | ggnaccncgc | angctgcgca | ggatcatcgg | agctgtgcgc | acccctgggt | ctgccaaacn |
| 75781 | tgcctctggc | taagcgccag | cangntggg | ctgagggctg | aggcagagct | cgggggcggc |
| 75841 | ctcctagtgc | cccatcgtgg | gggtcggggg | agagcagccc | atcangggag | ggaggaaccc |
| 75901 | tgggatccac | atggggccnt | gacagaaggg | naaagcccag | gtaagcacag | aatggctttc |
| 75961 | tgagncattg | atctttcttg | gagatggggg | ggggagttac | tttctgttaa | aggaagcatt |
| 76021 | cntggagtag | gaagccaaat | tcaaatacac | ttctccctag | gctggtttat | gagcttcttt |
| 76081 | ggaagagttg | agaagggctg | ggcgtgggtg | ctcaagcctg | taatcccagc | actttgggag |
| 76141 | gctgaggtgg | gcgcacgcgt | tgagcccagg | agttcaagac | cagcctggcc | aacatggcaa |
| 76201 | aacctcgtct | ctacaaaaaa | aaaatagctg | ggcttgggtg | tgctgtcacc | tacagtccca |
| 76261 | gctactcttg | aaactgaggg | ggaaggatca | cctgagccca | ggaggtcaag | gctacagtga |
| 76321 | gctgtgattg | cactactgca | ccccagcctg | cgtgacagag | tgagacctcc | ccccaaaaaa |
| 76381 | aagagagaga | gaaaagggtg | agaaagactg | ggaagtcacc | aaagccagag | aatgggaggg |
| 76441 | atctgcccct | actgcagggg | ggtgccaaag | tgggacttga | ccctgacctc | gactttcagg |
| 76501 | actcctgtcc | cccactccac | aggtgcctc | caactggcagg | ggactcagaa | gtgatccggt |
| 76561 | cacactaagt | gacacttagt | gatcagaagt | gccccgggtg | cactgagtgg | ccttgtccaa |
| 76621 | gctacatcca | ctctgtgggc | tcctccttgt | agcagcgagg | ggagggcaga | tgtcccaggg |
| 76681 | gctgggtcact | ggagcattcc | tccccctctg | ctccccagta | caacgccttg | ctaagcaaca |
| 76741 | tgagcaggat | ctactccacc | gccaaggtct | gcctccccaa | caagactgcc | acctgctggt |
| 76801 | ccctggaccc | aggtacggcc | cttgagctc | ccctctcggc | ggtgccctag | tgttcccaca |
| 76861 | ttgccctgct | gcactccgga | ccatgcagtt | gtgtagggtc | tgtggagaca | gcaggtaaac |
| 76921 | ccaaaggtgt | tgccctccaa | ctggggctgg | acggtgcaga | tancccccac | gcctgtcttc |
| 76981 | tcttggaag | tggacttccg | gaatctccag | ctgcagcccc | caattctgtg | tgtacctcgg |
| 77041 | cctctcccat | cacccttagg | ccttctcct | ggctgcctgg | tttccccctt | cgtgggtcct |
| 77101 | ctcatgttcc | ccaagagccc | tcaggccagg | gacccctcgt | ggcttcccc | taaaacccgc |
| 77161 | tccagcccc | tttatgagca | gcttcgagga | aggcactcca | tccaataggc | cgctaagtgt |
| 77221 | ctgtctgggt | tttggccttt | gggtgtcccc | ttggtgtcag | ccaccttagg | tggctcatgt |
| 77281 | tctggggcag | gggcctgccc | tggngtgttt | ctgtagctcc | cagccccctc | ccaccaggcc |
| 77341 | tgtagggtgc | ccctgtctct | gggggcaccg | tgatgttcag | gaagctgggt | ggagcagtaa |
| 77401 | ggactgggtg | aggctctggt | gaaggccgnt | tgaagacttc | aacgtggagg | cctctcacc |
| 77461 | gacctgcct | gcctgtgtct | cagatctcac | caacatcctg | gcttctctgc | gaactacgnc |
| 77521 | catgctcctg | tttgctggg | agggtggca | caatgctgcg | ggcatccgc | tgaaaccgct |
| 77581 | gtacgaggat | ttcactgccc | tcagcaatga | agcctacaag | caggacggtg | agcaggcctc |
| 77641 | tcctgttcca | ggaaccacgc | caggtgtcct | ctctcagctg | tctccccaga | gtcccagccc |
| 77701 | agagtcaggc | agagcagctg | gtatgacaat | tccagcaggc | cctgagtttc | ccagaaagtg |
| 77761 | gaggtgggac | cggcctgcac | ccagtgtgcc | tggactttgc | tgctggcctg | ccccacgtgg |
| 77821 | ccatcctgct | gtcactcctg | gcctgatgc | tcctctttgc | ctctgggaac | ctccaggatc |
| 77881 | tgttttagctg | gctgtagcta | attagaaatt | gtagagtggc | aacccccaa | ccaattttcc |

FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 77941 | agctagctgc | agatccacgg | gcctcgagcc | agtggaagag | ccgacttaca | gctgagagggc |
| 78001 | tgagggtccga | gcctttggcc | tgagctacat | acctcaccctc | cacgccccca | ggcttcacag |
| 78061 | acacggggggc | ctactggcgc | tcctgggtaca | actccccac | cttcgaggac | gatctggaac |
| 78121 | acctctacca | acagctagag | ccccctctacc | tgaacctcca | tgcccttcgtc | cgccgcgcac |
| 78181 | tgcatcgccg | atacggagac | agatacatca | acctcagggg | acccatccct | gctcatctgc |
| 78241 | tgggtaagga | cctggcctcg | cctccacatg | agtcccacgg | aagtgtgggt | cccaggttag |
| 78301 | gggtggggga | tgtccagggg | aagggaaggt | gggttgtgac | cctcacatct | cacatgtgtg |
| 78361 | gggcatcata | ctgtttgctt | cacatgcagg | agaccattcg | tgttcccact | ttacaggtgg |
| 78421 | ggaccctgag | gcttaggggtc | gtgagggact | tagtgggtcag | agagctaggg | gccaaaccaa |
| 78481 | aggctctggc | cctgggtcca | gtgggggagc | catcagccta | gctcatgccc | naaggaaaca |
| 78541 | agdactgtgg | ccctgcctca | ggattgagtg | gctggggcct | ggcacagcca | gaaatgacag |
| 78601 | tggcagcatc | ttgcagcccc | aggacatgtg | gccctcggag | gagtgtgggt | gggactgatg |
| 78661 | tgtgagatct | ctggccctaa | gccaggcctg | ncagcccttg | agggccccag | ggtacaggtg |
| 78721 | ccggccccag | gggtgccactc | agcgatgcat | gaagaagnca | ggcacagcca | ggcagggagc |
| 78781 | caagctgtcc | ccttccttcc | ttatctagga | gacatgtggg | cccagagctg | ggaaaacatc |
| 78841 | tacgacatgg | tgggtgccttt | cccagacaag | cccaacctcg | atgtcaccag | tactatgctg |
| 78901 | cagcaggtaa | gctctgggct | caagcctnng | gggtgggtggg | gtcgggggtg | gggcgcaaaa |
| 78961 | aaaggaggtc | acagatgggc | acaggggcgg | gaagggttctg | ggtactgagc | agcagcctgg |
| 79021 | tgtgtctgta | ggagcagtga | gctggggctg | gccccctcag | tgaggtgcca | gctcctccct |
| 79081 | ccaggctcca | cagtggcagg | atgagagcaa | caacgcactt | tactcatct | gctgtgggag |
| 79141 | tgagggccct | gcctctggga | atgggtggcca | cagagcagag | aagctttcat | gcacagggag |
| 79201 | ttgacccgag | atggggaccc | cagccctgtc | cccaggccag | ccagagtggg | ctccccctga |
| 79261 | cctggctcca | cacccctcct | ccagggctgg | aacgccacgc | acatgttccg | ggtggcagag |
| 79321 | gagttcttca | cctccctgga | gctctcccc | atgcctcccg | agttctggga | aggtcgtatg |
| 79381 | ctggagaagc | cggccgacgg | gcgggaagtg | gtgtgccacg | cctcggcttg | ggacttctac |
| 79441 | aacaggaaag | acttcaggtt | cagacatggg | aagagcacgt | tctgggggtc | cccggttctg |
| 79501 | gggcccgggg | aaaggcaggc | agcccaggcg | cagggaagct | ggttcccagg | cgtgctcta |
| 79561 | ccctacccca | gcactgggtg | gaggctgggt | ctgttccagg | gctagggggg | ataggaggcc |
| 79621 | tattagtcca | ccttctctgg | cagctttgac | aaatagtcac | ttctatacct | tggaatggag |
| 79681 | gaagaaggcc | caagtgggtg | tgagccaggg | cagggtaaag | aatttgcttg | tttctgccag |
| 79741 | gcacgggtgg | cacacctgta | atcccagcac | tttgggagg | caaggcgggt | ggatcacctg |
| 79801 | aggccaggag | ttcgagacca | gncctggcca | acatggcgaa | accccgctc | tactaaaaat |
| 79861 | acaaaaataa | attagccagg | ggtgatggcg | ggcgctgtg | atcccagcta | ctcaggaggc |
| 79921 | tgaggcagga | gaatctcttg | aaccggggag | gcggagggtg | cagtgagctg | agattgtgcc |
| 79981 | actgcaggcc | agcctgtgca | aaagagttag | acgctgtctc | aaaaaaaaa | aaagaaaaaa |
| 80041 | agaagttact | tgtttctact | gcggcttcat | gccccagggc | agctccctcc | tcattcctgt |
| 80101 | ctttcagggtg | ccaatctgcc | ctgtgccctg | gccctgccct | gttctgtcca | tcctgctc |
| 80161 | tcaccctcgc | cctctctacg | cccaggatc | aagcagtga | cacgggtcac | gatggaccag |
| 80221 | ctctccacag | tgcaccatga | gatgggccat | atacagtact | acctgcagta | caaggatctg |
| 80281 | cccgctctccc | tgcgtcgggg | ggccaacccc | ggcttccatg | aggccattgg | ggacgtgctg |
| 80341 | gcgctctcgg | tctccactcc | tgaacatctg | cacaaaaatc | gcctgctgga | ccgtgtcacc |
| 80401 | aatgacacgg | gtatgggagg | gctgagaggg | ccccaccacg | cctcacctaa | accccgctcc |
| 80461 | acccacacag | aggacctcac | ttgccccact | cagctctgcc | cttctttctg | cctcccgccc |
| 80521 | ccaggtcagg | cagggttcgg | gacccctcta | gagcctcacg | gtgcacactg | cgcccagctc |
| 80581 | agcacacctg | ggggtcctct | tccaagcagg | gccaggggtc | togagggcca | gccatacctt |
| 80641 | ctctgcatct | ccctggcctc | actttctgct | gccccgccag | cccacactct | taggggaccc |
| 80701 | tcttctccct | ctgacctctt | ccctctcctt | tcctctcatc | tcccaacaga | aagtgcacac |
| 80761 | aattacttgc | taaaaatggc | actggaaaaa | attgccttcc | tgccctttgg | ctacttggtg |
| 80821 | gaccagtggc | gctggggggg | ctttagtggg | cgtacccccc | cttcccgtta | caacttcgac |
| 80881 | tgggtgtatc | ttcggtgaga | ggagggatag | aaaagccttc | gccccagcta | gccctcccca |
| 80941 | gcctcctgga | cagccaggcg | cctcctgccc | cagccagttc | tagcctctcc | tctctaataa |
| 81001 | tgtcccccg | tgtgaccac | cgccttctcc | tttctgcct | gaaactccct | cttccaggaa |

FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 81061 | gttttcccca | gttctctcagg | atggggaagg | gttgccgggt | ggaaatgcct | tttctacaaa |
| 81121 | agctaaatcc | atctgtttgc | aacctctagg | ccctaagaca | atttaacccat | ccttttccag |
| 81181 | aaccaagtat | caggggatct | gtctctctgt | tacccgaaac | gaaacccact | ttgatgctgg |
| 81241 | agctaagttt | catgttccaa | atgtgacacc | atacatcagg | tattagcgcc | cccacccac |
| 81301 | ccacccccag | tactgtcaca | ccctcaatcc | acttctcctc | ctgtgttcc | agctgctca |
| 81361 | tccccagggc | ttgtcctcat | gtcctccag | acctcaaagg | cctggagtta | gagtggccca |
| 81421 | ctctcctgag | cctgtcttgg | gtctcccttc | tcccccaaga | tagcttctgg | tccagcctct |
| 81481 | gccctgcagg | aagctggatg | gtgcctgggt | aaggaaacccc | tgttcctggc | cccccatgat |
| 81541 | cttccctgac | tcccaccctg | tgccctgcagg | tactttgtga | gttttgtcct | gcagttccag |
| 81601 | ttccatgaag | ccctgtgcaa | ggaggcaggc | tatgagggcc | cactgcacca | gtgtgacatc |
| 81661 | taccgggtcca | ccaaggcagg | ggccaagctc | cgggtgtgtgg | tgggaagccg | ggggaagtgg |
| 81721 | gaggcagaga | ggagcggctg | gcaaaggggtg | tggcaggagg | tgctctggctg | ctctgatggg |
| 81781 | gtgggggggca | ccaaccacag | agctggactg | atgtggatgc | ctgtctcctc | gctatgtcat |
| 81841 | caaatatttta | ttgagtgggc | cttctggctg | gcantggggc | gacacaaatg | ccccctgcca |
| 81901 | ccatcagaga | gatcccaggc | cccagggtct | tattgccaca | gtttctgcag | tccattgngg |
| 81961 | gggcggaagt | ggccaggggc | atgtggggccg | gggtccaggga | gcagactcca | gcctgagtc |
| 82021 | cctgtgcccc | tggtacccac | tctgcccacc | aggaaggtgc | tgcaaggctgg | ctcctccagg |
| 82081 | ccctggcagg | aggtgctgaa | ggacatggtc | ggcttagatg | ccctggatgc | ccagccgctg |
| 82141 | ctcaagtact | tccagccagt | caccagtggt | ctgcaggagc | agaaccagca | gaacggcgag |
| 82201 | gtcctgggct | ggcccgagta | ccagtggcac | ccgccgttgc | ctgacaaacta | cccgaggggc |
| 82261 | atnaggtaaa | gccctgagtg | aggatgggtg | ggggctaagg | tgggtcctca | anctctgggc |
| 82321 | ttggcccagg | nccccaggtt | cctggctcagc | tcctaccagc | tgagccctgg | tacctgtcc |
| 82381 | tggagggcca | ggcagccccc | caagctcatc | agcagggcct | gcgagtgggg | acaggcatgt |
| 82441 | ctttccccc | gcattcctaga | gagggtgtgc | tcagacctga | gggccccctcc | ccttccagag |
| 82501 | gaagccagac | acaaggctct | gtgaggtcac | nactgcggcc | tccgctcttn | nnattggcca |
| 82561 | ggggacggta | gctgcaggac | tctgctctcc | tgccggccatg | ggccagggnt | tggtgactg |
| 82621 | caggacttcc | cagctcctc | ttctgctgc | tctgctacgg | gcacccntct | gctggtcccc |
| 82681 | agccaggagg | catcccaaca | ggtgacagtc | acccatggga | caagcagcca | ggcaacaacc |
| 82741 | agcagccaga | caaccaccca | ccaggcgacg | gccaccaga | catcagccca | gagcccaagt |
| 82801 | gggaccatgc | aggggagggg | cagggtgcca | gggggtggag | aggcgggggc | gggntaggga |
| 82861 | cagggcaggg | tacaagggag | tgcgagagg | ataatggctt | ctgggtgagac | cacaaacctg |
| 82921 | gagaggggag | gcagaggttt | gtctgtttcc | ctgcaactctg | tcccacagac | ctgggtgactg |
| 82981 | atgaggctga | ggccagcaag | tttgtggagg | aatatgaccg | gacatcccag | gtgggtgtgga |
| 83041 | acgagtatgc | cgaggccaac | tggaactaca | acaccaacat | caccacagag | accagcaaga |
| 83101 | ttctgggtgg | agccacctcc | ccacccccaa | acctgagcat | gtgcatacac | acagagatgc |
| 83161 | tgctccgctc | accacacagt | ggggctgcca | ccacatttta | aattgaatat | ttaaaacaat |
| 83221 | actcaatttc | gggccggggc | cgggtgntca | cgctgtaat | cccagcactt | tggtgggggg |
| 83281 | aggcggggcg | atcacgaggt | cagnnnatca | agaccatcct | ggctaacacg | gtgaaacccc |
| 83341 | atctctagta | aaaatacaaa | aattagccgg | gtgtggtggc | gagcacctgt | agtcocagta |
| 83401 | ctcaggaggc | tgaggcagga | gaatggcatg | aaccggggag | gcagagcttg | cagtggcccg |
| 83461 | agatggcacc | actgcactcc | agcctgggcg | acagagcgag | actccatcaa | aaaaaaaaa |
| 83521 | aaaaaaaaact | caatttcaga | ttttgatgaa | catttactca | atgcctgagc | aattcttctt |
| 83581 | tccttaaaaa | tcagtctctg | ggaggcctag | gtgggaggat | cacttgaagc | caggagtggg |
| 83641 | agactagcct | gggcaacata | gcaagatccc | atctctattc | aaacaaacaa | ataaacaata |
| 83701 | atcaatctct | agtaacagaa | taatttgtac | ataaataagt | ggtgctcaag | tcgtttttta |
| 83761 | aaagattgaa | agcctctgtt | tgtctcctct | acaaaagggg | ctacacttcc | tctttacctt |
| 83821 | cattccctgc | ctatttggct | gagcacaat | tatgccactg | agccacacac | tggtactgtt |
| 83881 | ccttggcact | ttgatctgtt | gcctcatctt | tttctcaaca | gccttgcaaa | attggtgagc |
| 83941 | ttattcccat | tttacagatg | ggatttgata | ttactctga | ggttcagaaa | ggccacagag |
| 84001 | ctaataccaa | gctggctcct | tcnctaagg | cctttaagac | acttgggggt | cttctcttct |
| 84061 | ctgcccctgc | ctggatatgt | gttgcttgac | cgcaggcatc | cagggagggt | gagtactgca |
| 84121 | tccaggacgt | tatcagcgtc | cagcttgcat | agagtcttat | aggcaaagg | tgcaacttaa |

FIGURE 3 (continued)

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84181 ttccactgcc cctcaccac cactccagc cctcagctcc cacttggggc ctcccgtca
84241 gaggtgctc tggagctcct gggccctgtg acaccatccc cctgtgccct cagctgcaga
84301 agaacatgca aatagccaac cacaccctga agtacggcac ccaggccagg aagtttgatg
84361 tgaaccagtt gcagaacacc actatcaagc ggatcataaa gaaggttcag gacctagaac
84421 gggcagcact gcctgccag gagctggagg aggtgtgtgg ctcgcaaggt acagggagag
84481 ggggaatcctg gggcagtgag cccaacacag ggtctggcct ggccttcacg ctgcttctc
84541 ttctctgctg tatcaagtca tggcatctgc catgcatng tgcacctcag aactgctgag
84601 agggcagcgc tccccagctc cctggctccc cactgccag cccatggggc tnggggtag
84661 tgcaggcccc agagagacca agtgcaaagg agtacagctc attgcctctc ctctctctg
84721 cagtacaaca agatcctggt ggatattgaa accacctaca gcgtggccac tgtgtgccac
84781 ccgaatggca gctgctgca gctcgagcca ggtgagagct catgtgcagg ctgagtga
84841 ggogagggct gggactggca tggggcccg ggggtgctgg tgagagcaca gagtgggtt
84901 cccctcgctc ttggggtcag cgtgccagg aaatgccct tcttgttttc cagaggggg
84961 gcttctctgc cccactgaga gcggcacct acttcatacc atgccccgat cagctgcccc
85021 tccctcagaa ccgcctctg cttaagggtg tccactctct cctgtctctc ctgcatgccg
85081 cccctcagag cagcgggatc tcaaagttat atttcatggg cttggactcc aaatggggg
85141 aactcgggga cactagctcc ccccgccctc ctttctgac cctgcccttg acttctcac
85201 cttctctgtc ttctctgagc cctctccca gcatgtgact gataaggaaa ttgagtcaca
85261 cagccctga aagcgcaga ctagaacctg agcctctgat tctctcact tccctcacct
85321 accctgccac ttctactgg atagaagtag acagctcttg actgtcctct tttctccca
85381 ctggctggtc cttcttacc cggcccggtt gaaagagctc acccccgaca caaggaccg
85441 cacacagata cctcccagct cctctcaac ccacccttc cagggttggga gaacttgagg
85501 cataaacttg cttccatgag gaatctccac ccagaaatgg gtctttctgg cccccagccc
85561 agtcccaca ttagaacaat gacaaataga aggggaaatg gaaaataaac aggagaaaacg
85621 gttttcccag gacagggtt ggcctacaag ttgtggatgt gggtagccat gccaaagtgtg
85681 aggggaggct ggccgggtgt ggtggctcat gcctctaate ccagcacttt gggaggccaa
85741 ggtgagtaga tcaattgagg ccgggagttt gagaccagcc tggccaacat ggtgaaaccc
85801 catctgtact aaaaatacaa aagttagctg ggcgtgggtg tagatgcctg tagtcccagc
85861 tacttgggag gctgaggcat gagaatcgct tgagcccagc ctgggcaata cagcaagacc
85921 ccgtctctac aaataaaata caaaaaatta gttggatgtg gtggtgcatg cctgtagtcc
85981 tagctgctag ggaggctgag atggaaggat tgcttgagcc tgggagggtca aggtgagct
86041 gagccgagat ggcgccactg cactccagcc tgggcaacag agtgagaccc tgtctcagaa
86101 aaaaaaaaaa aaaaaaaaaa gagaggagag agactcaagc acgcccctca caggactgct
86161 gagccctgc aggtgtctgc agcatgtggc cccaggccgg ggactctgta agccactgct
86221 ggagagccac tcccacctt tctcccatt ctctagacct gctgcctata cagtactttt
86281 tatgtgggtt cgccaatttt attccagctc tgaaattctc tgagctcccc ttacaagcag
86341 aggtgagcta agggctggag ctcaaggcat tcaaaccctc accagatctg acgaatgtga
86401 tggccacgtc ccgaaaatat gaagacctgt tatgggcatg ggagggtggt cgagacaagg
86461 cggggagagc catcctccag ttttaccoga aatacgtgga actcatcaac caggctgccc
86521 ggctcaatgg tgagtccctg ctgccaacat cactggcact tgggtccctt cattttctc
86581 aaagagggtg tgtgaaaccc caagcctagg aaaaggtaga tccctggagg aggcaggtaa
86641 tgtggtgttg ggagagcctg gctgtgtccc ctctgtaggc tatgtagatg caggggactc
86701 gtggaggtct atgtacgaga caccatccct ggagcaagac ctggagcggc tcttcagga
86761 gctgcagcca ctctaccta acctgcatgc ctacgtgcgc cgggcccctg accgtcacta
86821 cggggcccag cacatcaacc tggaggggccc cattctgct cactgctgg gtaagggcac
86881 atgtcgggccc ttgaggaggg taaagacgga ccacagtgtg agtgagggtt gggacagggc
86941 tgactagagg gtagggagca ggctggggac tgagagactc cagccctgtg ggggatgggt
87001 gccaggctg gaggggggtg ggcgtggga gtggggagcc cccacttgc atctggtgcc
87061 acattcactg cagatctatg tcgggcaagt caccatggat gggggaagaa gttataaatc
87121 ttgtccagga gaccacggca cccatcacia cattgtgtga tcttagaggg cgaggaagag
87181 gctgtgagtg ggagctgggg aggccttggc aagaggtggc ctgtgagcag ggcctcggaa
87241 gatgacaggg tttgacagat ggggaagtgg ggatgagagg acagacgcag tgttcaggcc

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FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|------------|------------|-------------|-------------|
| 87301 | aagggaactg | gaacaaagaa | gaacctgaga | atgtaaatct | acttcaaccc | tggaccctcc |
| 87361 | tttgccaagg | gctgcaatct | cagatgccct | gaatgtgtga | agtaggcgg | gaggacagta |
| 87421 | agggatggta | gggagtaagg | caaagcagag | gctactgggt | ctctgtccct | gatgggctgt |
| 87481 | taggaacact | ttcctggagc | agagagacca | gacaggccct | cagaccattt | agaaactata |
| 87541 | agggaggccc | cagaggacgg | cctggctgtg | ggtctagctc | ccacacaggc | tgggagtcca |
| 87601 | gccctcttca | gcccctctct | ggtgagacca | aagaacatct | ggtgatgtca | cagtggacgt |
| 87661 | cagttcacca | actgggagac | acaggncccc | gggaagaaaa | gcaacatgcc | cagcgtggcc |
| 87721 | tgggagctgg | ggcagagctg | gccttagaac | tcagcccttg | acaattggta | aaaggggaaa |
| 87781 | ggggagcaac | ctaactactga | tgcgctctct | gtctctctct | ctggctctct | ccctggctct |
| 87841 | ctccctcttc | tctctcatgt | tctctccatc | actcatcgct | ctaaccctct | ctcactgggt |
| 87901 | tgdactttag | acttcatctg | atgtcagccg | aagcttcacc | tcacttggct | aggaaagagc |
| 87961 | cttgagtcca | aatctgtttc | tgagccttcc | attcatcctg | agtttcttcc | ttttcctctg |
| 88021 | cctgtggagaa | ctaggctctt | ttcttacact | aaactcagag | gcacagccct | ctnccctgaag |
| 88081 | gagacggctg | gttccctgtca | gagttgctga | gctgcagaca | ccgacctcag | gtgggtgcgga |
| 88141 | ggggagcatgg | cagagtggct | ggtgaagaga | gcagcctgcc | agcctttcaa | ttccagccct |
| 88201 | gccacttagg | agccgtgggc | ccccggcgag | ggggggcgng | tnactttaac | tctccagcct |
| 88261 | gtttccttta | ctagccaatg | ggaatcgtga | cagtacctgg | gtgcagacag | gattgaaagt |
| 88321 | gaattcacac | aatgttcttg | gtgcagagcc | aataagaggt | ggccaccggg | gtgtaggtgt |
| 88381 | tctggggacc | tgtaatgtcc | tcacatgtca | gcagttgcta | gtcacattgg | tctccactgc |
| 88441 | tcacggacag | tgaagaccac | ctggattccc | tgataaccag | caaggccccc | acctagagcc |
| 88501 | aggcagtaat | gacctactgg | gctggatatg | cacaccaaag | atgatgtgtg | cctcaaagct |
| 88561 | tgcaaacagt | aggtgctcaa | gaaatgccac | tatgattagc | aggactggga | tctggagcgc |
| 88621 | tcttcctgca | ggagggcatt | gagcctaagt | aacatttgct | tttccctctc | ctgccgtccc |
| 88681 | ccacactcgc | ctccagggaa | catgtgggcy | cagacctggt | ccaacatcta | tgacttgggtg |
| 88741 | gtgcccttcc | cttcagcccc | ctcgatggac | accacagagg | ctatgctaaa | gcagggtccgc |
| 88801 | accagcccag | gggcagggag | gncccgccgg | gantgggagg | gaccctctga | ttcaggagtt |
| 88861 | ccctccagtt | tagccctccc | ccgggatccc | cacggcagca | cgcagtctgn | ttcccggaac |
| 88921 | ccccagtttg | ggcagaactc | cctctngctt | gcagggctgg | acgcnccagg | aggatgttta |
| 88981 | aggaggctga | tgatttcttc | acctnccctg | gggctgctgc | ccgtgcctcc | tgagttctgg |
| 89041 | aacaagtcga | tgctggagaa | gccaaccgac | gggcgggagg | tgggtctgcca | cgccctcgcc |
| 89101 | tgggacttct | acaacggcaa | ggacttccgg | tacatccagc | tagggctcag | gtctcgttcc |
| 89161 | tgagccccac | gggcnaaggg | aaatgaacca | agcaaagggt | ccactactgt | ccccagctg |
| 89221 | gagccagcag | ggcaggatgg | ggacagggcc | agagtgtggg | actgagtgtc | tagagaggtg |
| 89281 | ttggcttctg | gcaggaaaac | cccatccgcc | tgatggggac | ttctgaagca | cgcaacagct |
| 89341 | ctgtcagcct | ggcgcgtggg | aagtgtctca | ggtcccagtc | ctgggtttga | gcatggtagg |
| 89401 | ctgccccgcg | tccctccttg | ggagcagccc | ctgcatggag | ctggcctctc | cctgggggca |
| 89461 | catgctgtga | cacagggagg | cacacgagga | tgttgggtgc | tctgtacaga | tccactctca |
| 89521 | cccctgacag | gctcagaagc | tgccctcctt | ggaggatggc | gttttagtta | cctattgctg |
| 89581 | tgcaaccaag | caccccagag | cttagcctta | cgaacaanc | cagttgannt | tttgcttatg |
| 89641 | attttatgtg | ccaggaattc | aggcagtaca | cagtggaaat | ggcctttctc | tacagggccc |
| 89701 | cctctgtttg | gggcagctct | cacagccggg | atggtcfaat | gggggccata | cgtccagagc |
| 89761 | ccagtttctg | gctgtcgggt | gaggtcctcg | gtttttccca | tgtggcagat | gctggggcac |
| 89821 | atgttcccag | tggcctcctg | gctcacatgt | tgggtgcttg | gggtgagatg | gctggaacgg |
| 89881 | ctggagggtg | gtcaggcatc | tctccaggct | agctcggggc | ccctcccagc | gtggaatctg |
| 89941 | aggtgggcag | atttacctgg | cagccagcat | ccccacagc | aactactgac | gcagccagtt |
| 90001 | ctcaaggcta | ggtccaaaac | tggcccagag | tcacttctgc | catgttttat | tggctagaac |
| 90061 | aagtcacaag | ttcaccagaa | ttcaagagaa | gagaaaaaag | ttccctccac | ttggggagaag |
| 90121 | tggcaaagac | catctgtcac | agctgaagaa | gtgtctctta | caaggagaac | agacacgggg |
| 90181 | agcctgaaac | aaaacccgat | gggattccct | gggctgtgca | ggcccttcca | ggcatgagga |
| 90241 | ctcagccaca | gggctngaga | nggagacagg | atctggggga | tgagagccct | tgtggggctc |
| 90301 | tcccttttat | ggggagtcag | aggagaagct | ggatagatcc | ccagccttgt | ggccaggatg |
| 90361 | ctgggcagct | cttccttccc | cctccccgat | gagaatgaca | gaaaaacagg | attcacctga |

FIGURE 3 (continued)

| | | | | | | |
|-------|-------------|-------------|-------------|-------------|-------------|-------------|
| 90421 | gccaaaaggc | ttccagttag | atccaagaga | gaantttccc | gcagtttgaa | ttggtttgct |
| 90481 | aaacaacaag | gaagggctgg | gtgcggtggc | tcacacctgt | aatctcagca | ctttgggaag |
| 90541 | ccgaggcagg | aggtctgctt | gagctcaggg | gttcgagacc | atcctgggca | acatagcgag |
| 90601 | accccatttc | ataaaaaata | aataagtaaa | tgagaacaag | gaaggactga | cgagagacgg |
| 90661 | tagaaccttc | tggtttgggc | nagctctgca | gctgccattc | atcctggcca | taagaattct |
| 90721 | tgggggtgaat | aagtttgctg | ctggtggggc | gcagtagatg | cagaatcgcc | cactctcacc |
| 90781 | cctgacagaa | acagttgttt | ccttcagggg | gcctccatct | tgggagataa | agcatgtgta |
| 90841 | catgggaacc | cactggccac | acattctcta | gaaagtaaac | aatgtcccag | tgcctctaga |
| 90901 | gcaagcactt | tgtacagtca | gaaagcaaca | ggtggtgggg | gctggagtca | ttcaggaaaa |
| 90961 | tgggaggcag | aggaatggcc | tgaacggccc | gatgctaggg | gcttctgccc | ccagattccc |
| 91021 | tcttacgcac | actcagtggg | tgccttcccc | ctccctcccc | acagtgtctg | gtccctcgca |
| 91081 | tgctgcagtg | ctgggggtctg | ccctgggtat | agcaaggccc | actgttccct | tatgccaggg |
| 91141 | gcttctcact | gtcctctccc | aacacctct | ccccactcc | actattccta | ggatcaagca |
| 91201 | gtgcaccacc | gtgaacttgg | aggacctggg | agtggccccc | cacgaaatgg | gccacatcca |
| 91261 | gtattttcatg | cagtacaaaag | acttacctgt | ggccttgagg | gaggggtgcca | accccggtct |
| 91321 | ccatgaggcc | attggggacg | tgctagccct | ctcagtgtct | acgccccagc | acctgcacag |
| 91381 | tctcaacctg | ctgagcagtg | aggggtggcag | cgacgggtgag | agagaagcgg | gaggccctgg |
| 91441 | tgggctgagg | accaagaaaag | ggtggtgagc | ttgggaggtg | ggaaaggggc | acttagtggc |
| 91501 | ccatgggcag | aggtgtgggg | cagagcaatc | ggaaggaagg | gagccaccca | gaccatccca |
| 91561 | ggaggcaggt | cacaggggccc | aaaagggtaca | gcacccccac | ccctccacca | tcacaggcac |
| 91621 | accaggggcca | agccgctagg | accctgggtc | tgacagctgg | gctcccttcc | cttgacagagc |
| 91681 | atgacatcaa | ctttctgatg | aagatggccc | ttgacaagat | cgcctttatc | cccttcagct |
| 91741 | acctcgtcga | tcagtggcgc | tggaggggat | ttgatggaag | catcaccaag | gagaactata |
| 91801 | accaggagtg | gtggagcctc | aggttcttga | acactcccac | gggatgcggg | ctgggggatc |
| 91861 | tctgcgagtg | tctgcatgtg | cctgggtgtc | tggatggggc | agggtagggg | agtgtgtgtg |
| 91921 | tgtgtgtaca | ctattgtgtc | tgtgcatatg | atgtgtgtgg | tgtaagtgat | ggggaaaacg |
| 91981 | gggtgattgt | gcacagaggc | ccagcacgca | ggagaatggg | gtgccagta | tagccccaag |
| 92041 | tgcagggacc | ctccctcaag | tcaaaaatgc | cacccccagc | ctggttctcc | ccaaactcat |
| 92101 | cttccaacat | atattcccac | tcgacaggct | gaagtaccag | ggcctctgcc | cccagtgcc |
| 92161 | caggactcaa | ggtgactttg | acccaggggc | caagttccac | attccttcta | gcgtgcctta |
| 92221 | catcaggtaa | cgggaaaggc | aggagggcac | attgtgaggg | gcagtaccca | cagctttgtg |
| 92281 | tttcaactgc | ggccactgcc | cggtccacaa | gctctgtcag | tcagggcaga | ccggggggag |
| 92341 | ccggccgcac | ggtgcaggtg | cctggggcca | ctcacactgc | caaggctgat | gggttttttc |
| 92401 | ttgaacattc | ttttgatgag | agtctgtacc | atccaaacag | ttgaacacag | aaactcaacc |
| 92461 | taataattgg | ctaattggtta | ccagaccttg | gttaagtagt | taacattaac | cagactcat |
| 92521 | ggctggatca | tgagctctgc | actgttttgt | tttgctttta | aaacaagact | gtgattcttt |
| 92581 | tactattatt | gaacattgtc | tgcgatacaa | tttgaattgt | acctggaagc | ccttctagac |
| 92641 | actaaaatgt | aggattggag | atcggttaag | gtgggaggca | gggttgctgg | ggcaagttac |
| 92701 | agtcacaggc | tggggtcaga | cagaactggg | ttcaaactct | gtctccnatt | actttgtttc |
| 92761 | cttgagaaaa | ttcctcaatt | tctgtgagct | tccatttccct | gacctgtgaa | ccccatttca |
| 92821 | caggatgcac | gatggctaac | ttcttagcat | tctgtctcat | acacagcctc | ctcagggagg |
| 92881 | ggtggccagg | acccactat | tcatactct | ctagtggaa | gtagctgcac | actaggtctg |
| 92941 | caggtcacat | ggccacagat | gagtgtgccc | aatgcagccc | ctctccttct | gtgtgccccg |
| 93001 | ggagagcact | tgctgagggc | tagcaaggct | gtttgtgatc | cgggaggctc | cctgggaggc |
| 93061 | tgggggctag | agagacctca | ggctggagtt | ccaggtgccc | ccgggctaca | ggtagcccaag |
| 93121 | gccaccccc | gagggctgtg | gctgcctctg | gccctggcct | cccgtggttc | ctgggaagccc |
| 93181 | agcaagggca | gggcccctgc | ccaccttgcc | tcctggcacc | tgggatgatg | ccagcacatc |
| 93241 | atcaagtgtc | aataactgat | tgtgggatgg | atgaagtctg | tccccagagt | ccaggaagag |
| 93301 | ggcatccctg | gagcacctca | gataggncct | gacctagacg | gtgctccaga | gatgacactt |
| 93361 | aggancaggg | ctcccgctg | cctgctggag | tggctccctg | ggttcccagc | cggcgctggc |
| 93421 | tctcaccggg | gagccagctg | gtgtgatggc | tagcttccca | gcttaatgca | gacaatttct |
| 93481 | caaacagggg | tgggcaaagg | agacttggct | gctctagaaa | aacattccgg | attctggcca |

FIGURE 3 (continued)

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93541 gcagccttca caaagcactt ttaggaaaga ccaggggaact aggtggtaca tgcttgcacc
93601 cagcattcaa agtgagagggc ctgtgccact ggctcaggac attttaaacc tcttcagact
93661 ttaagctggg gagaatcctc cagccttgac tggcagattt ctaccaggga attcgtgatg
93721 ctttgataaa gatcatgtag gactggcttc cctgcccaga ccaccctagt agatccacna
93781 cggccccattt ggccacacct tgcctctact tgcataatac ccagggatgg agacctcact
93841 gcctccaaag ccacctgcc a gatctentga aggtctctgcc ctgaccccat ggagcaggcc
93901 ctctgagtt gtggaggcag ctctgtgggt gggaggcatc tacacaggca cggctaggaa
93961 gaggtcaga caatgctaag agctgggggt ggggagctca cctgatagc tgtgggcaga
94021 gttggggggc cttggctctg ctgtgogcat gtgacttagc acacatcaca tgtgatgtgc
94081 agaagggcct ggggcccagn tggcacaagg cctcaacca actccgcccc gggccacggc
94141 ctctctctgc tccaggtact ttgtcagctt catcatccag ttccagttcc acgaggcact
94201 gtgccaggca gctggccaca cgggccccct gcacaagtgt gacatctacc agtccaagga
94261 ggccgggcag cgctggcgn tgagtgtcct ccagccctcc tttgtttcca tngctctgg
94321 cctgcgcccc tgggccttga ggggtctgtc cactggagct tttgtgggaa cacttgccat
94381 tttgagccgg gaactccac ctgcagcgtg ggccaggcct gattgccatc tcttaggca
94441 cctggagccc tggggccctg ggacaagttt cagctgggag tgggtatgga gagtggatgt
94501 caggtggggg caagaggggc catgtccttc tgactctgcc tccctgtctc atgcctcccc
94561 aggaccgcca tgaagctggg cttcagntag gccgtggccg ganagccatg cagctgatca
94621 cgngggccag ccnaacatg agcgccctcg ccatgttgag ctacttcaag ccgctgctgg
94681 anctggctcc gcacggagaa cgagctgcat ggggagaagc tgggctggcc gcagtacaac
94741 tggacgnccg aactccggta ccgccacca cccacctcc agccttgggt cttaaccccc
94801 tccccaggct gggcagccat gccgctgaen ctncggagcc tggccctgcc ccgcacctt
94861 gccctgccct gccctgccct gcccatgctg tctccttgt tcccgtcag ctgctcaga
94921 agggccccct ccagacagcg gcccgctcag cttncctggg cctggacctg gatgcgcagg
94981 agggcccgct gggcncagnt ggctgctgct cttcctgggc atcgccctgn ctggtagcca
95041 cctgggcct cagccagcgg ctncctncaa catccgccac cgcagcctcc accggcactc
95101 ccacgggccc cagttcggct ccgaggtgga gctgagacac tctgaggtg acccggtgg
95161 gtcggccctg cccaaggccc tcccaccaga gactgggatg ggaacactgg tgggcagctg
95221 aggacacacc ccacaccca gccaccctg ctctctctgc cctgtccctg tccccctccc
95281 ctcccagtec tccagaccac cagccgcccc agcccttct cccagcacac ggtgctga
95341 cactgagccc cactctcca agtctctctg tgaatacaat taaaggctc gccctcccca
95401 tctgagctg tgctccctcag agggaagcca gggacaggga caggctgctt tctgctcc
95461 tggcagtc aa gtgggtccc ttactagggt tgttctcca tctccttca ggagccgggg
95521 aggatcccca gagctctgcc ccagcacctn cctggcntgg cgcctgnntc tccctccag
95581 cccaggcagc ccgccaactgt cctgccaccg caggcagccc ctgtctggcc caagcactga
95641 cccacgcgga ctctgggaag cagacatcct gggctgctgg cctcacattt ccactggcag
95701 tggagccttt cctgctcca caaatggcca ggtcccccca ggggaaggct tccggctgtt
95761 atcggtgccc tcagggggcg agtaccttgg agggcctgct tcaanggagg gtgccccctg
95821 gagggcacac accagcctag tgettacctt ggctcctgcc tgtaccagct ccatgactct
95881 gctcgggtga acagccttgg ctctcagaca gccattctaa cactgccagt gcagaggggg
95941 ctcagacgct ggagtgtagc agtggctgca cctgcacagg gattagctgc cagcagccac
96001 cctgctggcg tcccagcaca cactcctca ctccctgcat tggagggagt gtcattttaa
96061 gggacatttt tatgactttt atgtgtatgt ttatgtagaa atttggaaaa tacagaaaac
96121 tgtaaagaaa ataaaagccc tttatatcaa cgtcaagaga taagccctgt tgacgttttg
96181 gtgtacaact tgccggaact cttctcagca catgtgtatt ttaaatggga tcacaccata
96241 tttacagtca tacatccttt tatcacttca tacaactaga tctgtttttc tgatatttaa
96301 atgccagact tgaacttgg ccaatagaag ttggtccatt tgctggggcc aggggctccc
96361 cagccaccgg gggccctctg tcaaacctc agccctgagt ctcttctggg ctttctgat
96421 gtcttcaccc tagctaggte catctcccaa tatctgtccc ccttagtcca cagcttttgc
96481 cccccaatcc aggtgcccgtg cgtgtctctg tgtgtccgtg tctgtgtgtg cgttgtacac
96541 aggttggct gttacaggcc cattctgtaa ggcaggatgt ggggctgagg tattttagga
96601 ttgaaagagg gtggaagttt atgattacat aggacaatgg aatttataaa catgtcctct

```

FIGURE 3 (continued)

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96661 aaatggttcc gagtcaccta ccaatgaaga cttcttgaat tatccccct tttcccagcc
96721 tgttttgaaa gctctttggt taccagacaa aggtcatcaa tcatatgacc ccctttgcct
96781 tttttttttt ttttaagatgg agtctcgctc ttgttgccca ggctagagtg cagtgggtgtg
96841 atctcggtc actgtaacct ccacctcctg gctttcaagc gattctcctg cctcagcctt
96901 ccgagtagct gggattacag gcgcccacca ccatgcctgg cttaaattttt gtatttttag
96961 tagagatggg gtttaatcat gttggccagg ctggtctcga attcctgacc tcaggtgate
97021 caccacctc ggccctccaa agtgcctggaa ttacaggcat gagccaccat gcctggcccc
97081 cgtttcctat ttttatgaac cacagcgggt catgctgcct gtcagagctt ctgggcccgcg
97141 tgaggtcacc agctttcaac acgcaaagga ctgcactgca gctgggggaa gagaaactcc
97201 aactgcatt ggccctggcca gccttacct ctgggctttt gaaatagtat cttttttctg
97261 tttgttttca aacagagtct cgctctgtcg ccagggctgg agtgctggag tgcagtggcc
97321 tgatctcggc tcaactgcaac ctccacctcc caagttcaag cgattctcct gcctcagcct
97381 cccgagtagc tgggctacta cttncaggcg cagcccgccn atgcccagct aattttctttt
97441 gtatttttag agagatggag tttcaccatg ttgcccaggc tggctctgaa ctctgagct
97501 caggcaatcc gcccgctca gcctctcaaa gtgctaggat tancaggcgt gagccaccgc
97561 gcccgccca atagtatcat tctttagatg cctgcctctg cctccttggg tgagtgggga
97621 gaggcagggg atacctggaa agtagcagag gaagaggagg cggtaacagc aggaagaggg
97681 ccagcccagt gttttctact ggtggccctg aaggctgagc ccatccccgt gccgtgcctg
97741 ccaatgccgc tcttgggaga ccagctctca cctacgctag ccacaggtgg tggctgccag
97801 acagtttctc tgatccccac agccctcccc accctctacc ttcctctgtc tgcctaacc
97861 cttcccacc caccctggct tttaacataa gtgaaaaagt ggctaaccac acctctgcac
97921 ttatcacctg tgtgacctg ggcagtttgt ttttgagtc tgcattttct tttcttttct
97981 tttttttttt tttttttttt tgagatggag tctcgctctg tcaccaggc tggagtgcag
98041 tggcgtgatc tcggctcacc gcaagcttgg cctcctgggt tcacgccatt ctctgcctc
98101 agcctccga gtagctggga ctacaggcgc cagccaccac gcccggttaa ttttttgtat
98161 ttttagtaga gacagggttt caccgtgtta gccaggatgg tctcaatctc ctgacctcgt
98221 gatttgctg cctcggcctc ccagagtgt gggattacag gogtgagcca ccgcgccag
98281 cctgcgtttt ctttcttacg gttcttatca accctctcag cgttgccatg aagatgaaat
98341 gagatgatgt acaaagtcct agtagagtgt cttctcttta taatgaatgc atcgtctcct
98401 gagaaagcta gtttcataac aaccccagat cagccaagtc cagatcagcc ctctcacttg
98461 agacaggaag aggaccggg gcaactgggt gccggagctg gactgaaaac tcccatctcc
98521 cagctgcctt ccaggaactt ccccaccaca cgtccttgca caaccagtca actgtcttct
98581 tactgggagc acacagagct cgtccactgg gggcccacag cttgcctcag ttccaggagt
98641 actcagccat ctccctgtgt cgcctctccc tcatcatccc tccccatgtc acatctccct
98701 cagcctctcc gtgttacctc tccctcatcc tcctqccca tgttgccctc cctcctcct
98761 ctctctcctc ctccctgccc gtgtgcctc ttcctcatcc tctccctcat cctctccctc
98821 ttcctctct

```

FIGURE 4

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1   mgaasgrrgp glllplplll llppqpalll dpqlqpqnfs adeagaqlfa qsynssaeqv
61  lfqsvaaswa hdtntaena rrqeeaaalls qefaeawgqk akelyepiwq nftdpqlrri
121 igavrtlgas nlplakrqgy nallsnmsri ystakvclpn ktatcwsldp dltnilassr
181 syamllfawe gwhnaagipl kpilyedftal sneaykqdgf tdtgaywrsy ynsptfeddl
241 ehlyqqlepl ylnlhafvrr alhrrygdry inlrgpipah llgdmwaqsw eniydmvvpf
301 pdkpnldvts tmlqqgwnat hmfrvaeeff tslelspmpf efwegsmlek padgrevvch
361 asawdfynrk dfrikqctrv tmdqlstvhv emghiyyylq ykdlpvsrr ganpgfheai
421 gdvlalsvst pehlhkigll drvtndtesd inyllkmaie kiaflpfgyl vdqwrwgvfs
481 grtppsrynf dwwylrtkyq gicppvtrne thfdagakfh vpvtpyiry fvsfvlqfql
541 healckeagy egplhqcdiy rstkagaklr kvlqagssrp wqevlkdmvg ldaldagpll
601 kyfqpvtqwl qeqnqqngev lgwpeyqwhp plpdnyepgi dlvtdeaeas kfveeydrts
661 qvvwneyaea nwnyntnntt etskillqkn mqianhtlky gtqarkfdvn qlqnttikri
721 ikkwqdlara alpageleey nkilldmett ysvatvchpn gsclqlepdI tnvmatsrky
781 edllwawegw rdkagrailq fypkyvelin qaarlngyvd agdswrsmie tpsleqdlr
841 lfqelqplyl nlhayvrral hrhygaqhin legpipahll gnmwaqtwsn iydlvvpfps
901 apsmtdteam lkqgwtprrm fkeaddffts lgllpvppef wnksmlekpt dgrevvchas
961 awdfyngkdf rikqcttvl edlvvahhem ghiqyfmqyk dlpvalrega npgfheaigd
1021 vlalsvstpk hlhslnllss eggsdehdin flmkmalcki afipfsylvd qwrwrvidgs
1081 itkenyngew wslrlkyqgl cppvprrtgd fdpgakfhip ssvpyiryfv sfiiqfqlhe
1141 alcqaaghtg plhkcdiyqs keagqrlata mklgfsrpwp eamqlitgqp nmsasamlsy
1201 fklldwlrte enelhgeklg wpqynwtpns arsegplpds grvsflgldl daqqarvgqw
1261 lllflgiall vatlglsqrl fsirhrslhr hshgppqfgse velrhs

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FIGURE 5

1 gaattcatgc cccttttgaa atagacttat gtcattgtca gaaaacataa gcatttatgg
61 tatatcatta atgagtcacg attttagtgg ttgccttggt agtaggtcaa atttactaag
121 cttagatttg ttttctcaca tattctttcg gagcttggt agtttccaca ttaatttacc
181 agaaacaaga tacacactct ctttgaggag tgccctaact tcccatcatt ttgtccaatt
241 aaatgaattg aagaaattta atgtttctaa actagaccaa caaagaataa tagttgtatg
301 acaagtaaat aagctttgct gggaagatgt tgcttaaatg ataaaaatgg tcagccaaca
361 agtgaaccaa aaattaaata ttaactaagg aaaggtaacc atttctgaag tcattcctag
421 cagaggactc agatatatat aggattgaag atctctcagt taagtctaca tgaaaaggat
481 ggtttcttgg agcttccaca aacttaaaac catgaaacat ctattattgc tactattgtg
541 tgtttttcta gttaagtccc aagggtgtcaa cgacaatgag gaggtgaatt ttttaaagca
601 ttatttatatt attagtagta ttattaatat aagatgtaac ataatacatat tatgtgctta
661 ttttaatgaa attagcattg cttatagtta tgaaatggaa ttgttaacct ctgacttatt
721 gtattttaaag aatgtttcat agtatttctt atataaaaaac aaagtaattt cttgttttct
781 agtttatcac ctttgttttc ttaagatgag gatggcttag ctaatgtaag atgtgttttt
841 ctcaacttgc attctgagta ctgtgatttt catttacttc tagcaatata ggattacaat
901 taagaggaca agatctgaaa atctcacaaa ctataaaaata ataaaagagc agaatttttaa
961 gataaaagaa actgggtgga ggtagattgt tctttggtga aggaaggtaa tatatatgtt
1021 tactgagatt actatttata aaaattataa ctaagcctaa aagcaaaata catcaagtgt
1081 aatgatagaa aatgaaatat tgcttttttc agatgaaaag ttcaaattag agttagtgtg
1141 tattgttatt attaatagtt atgaaacacg gttcagtcta atttatttat ttgtagaaca
1201 gtttgtcctc aactattatt tttgtcgact tattgctggt aatttgcagt tactaaaaat
1261 acagaaatgc atttaggaca atggatattt aagaaattta aattttatca tcaaactgat
1321 catggccaaa tttcttacat atagcatagt atcattaaac tagaaataag aatacacaaat
1381 aatattttaa tgaagtgatt catttcggat cattattgag tttcaagga acttgagtgt
1441 tgtatttatc agactctaca tgtaagaaca tatagttaat ctgggtgtgt gtgtaaaaac
1501 atatggttaa tctggttaa gctggttaat catattaggt aagaaaaatg taaagaatgt
1561 gtaagacgaa atttttgtaa agtactctgc aaagcacttt cacatttctg cttatcaact
1621 aaacctcaca gagatagttt aatagtttag gctttaaaat ggattttgat tattcaacaa
1681 gtggccttca taatttcttt aagtgttttt ctttaagtat atactttctt taaatatattt
1741 ttaaaatttc cttttctcta gtaaaagccag accatccatg ctacctctct agtggcactc
1801 tgaaataaaa agaaaatagt tttctctggt ataattgtat ttgtaataag cagatgaatc
1861 acatttctta aaatttgttt tagagagggg aagctctgac taggaccatg acttcaatgt
1921 gaaatatgta tatatcctcc gaatctttac atattaagaa tgtatatagt caactggtta
1981 aacaggaaaa tctggaacag cctggctggg ttttaattct agcaccatcc tactaaatgt
2041 taaataatat tataatctaa tgaataaatg acaatgcaat tccaaataga gttcatctga
2101 tgacttctag actcacaaaa ttgcaagaga gctcagttgt tgcacagttg ttccaaatca
2161 tgtcgtttgt taatttgtaa ttaagctcca aaggatgtat agctactgac aaaaaaaaaa
2221 atgagaatgt agttaatcca aatcaaaact ttcctattgc aatgcgtatt ttctgcttca
2281 ttatccttta atataatatt ttaagtttag aagraatttt aattacaatg cacaagcctt
2341 gagaattatt ttaaatataa gaaaatcata atgtttgata aagaaatcat gtaagaaatt
2401 tcaagataat ggtttaacaa ataattttgt tgatagaaga taagactaaa agtgaaatc
2461 gaagtggaga ggacacttaa actgtagtac ttgttatgtg tgattccagt aaaaatagta
2521 atgagcactt attattgcca agtactgttc tgagggtacc atatgcaata agttatttaa
2581 tctttacaat aatcttgtaa ggcagattca aactatcatt acacttattt tacagatgag
2641 aaaactgggg cacagataaa gcaacttgc caaggtctca tagctgtaag tcaaccctac
2701 ggtcaagacc tacaagtagc cgagctccag agtacattat gagggtaaaa gattgtctta
2761 ttacaaataa attccaagta gaatcaacct ttaataagtc tttaatgtct cttaaatatg
2821 tttatatagg agtctaatca ccaattcaca aaaatgaaag tagggaaatg attacaata
2881 atcataggaa tctaacaatc caagtggctt gagaatatc attcttcttg acagtataga
2941 ttctttacaa tttcgtaagt tccaatgtat gttttaggaa tatgaggta ttactattca
3001 taatctgata cagctttatc ctaaggcctc tctttaaaaa ctacactgca tcatagcttt

CCCTTTTGAA

FIGURE 5 (continued)

| | | | | | | |
|------|-------------|-------------|-------------|-------------|-------------|-------------|
| 3061 | tttgtgcagt | tggtctttct | actgttactg | aacagtaagc | aacctacaga | ttcaactatca |
| 3121 | ccaaccagcc | agttgatgga | tcttaagcaa | attatcaagc | ttgtgataac | ctaaattata |
| 3181 | aaatgagggt | gttgaatag | ttacattcca | aatcttctat | aacactctgt | attatatttc |
| 3241 | tgcctcattc | cttgtagggt | ttcttcagtg | cccgtgggtc | tgcacccctt | gacaagaaga |
| 3301 | gagaagaggc | tcccagcctg | aggcctgccc | caccgcccac | cagtggaggt | ggctatcggg |
| 3361 | ctcgtccagc | caaagcagct | gccactcaaa | agaaagtaga | aagaaaagcc | cctgatgctg |
| 3421 | gaggctgtct | tcacgctgac | ccagacctgg | tgggtgcact | gatgtttctt | gcagtgggtg |
| 3481 | ctctctcatg | cagagaaagc | ctgtagtcac | ggcagctctg | taatgtttca | ctgaccacac |
| 3541 | ttaccatcac | tgttattttg | tttgtttatt | ttggaaataa | aattcaaaac | ataaacatat |
| 3601 | tgggcctttg | gttttaggct | tctttcttgt | tttcttttgt | ctgggcccaa | aatttcaaat |
| 3661 | taggatattg | gggtgccacc | tttccatttg | tatttttgcca | ctgcctttgt | ttagttggta |
| 3721 | aaattttcat | agcccaatta | tattttttct | ggggtaagta | atattttaaa | tctctatgag |
| 3781 | agtatgatga | tgactttcga | atttctggtc | ttacagaaaa | ccaaataata | aatttttatg |
| 3841 | ttggctaata | gtatcgctga | attttcttat | gtgctatttt | aacaaatgtc | catgacccaa |
| 3901 | atccttcatc | taatgcctgc | tattttcttt | gttttttagg | ggtgttgtgt | cctacaggat |
| 3961 | gtcagttgca | agaggctttg | ctacaacagg | aaaggccaat | cagaaatagt | gttgatgagt |
| 4021 | taaataacaa | tgtggaagct | gtttcccaga | cctcctcttc | ttcctttcag | tacatgtatt |
| 4081 | tgctgaaaga | cctgtggcaa | aagaggcaga | agcaagtaaa | aggtagatat | ccttgtgctt |
| 4141 | tccattcgat | tttcagctat | aaaattggaa | ccgttagact | gccacgagaa | tgcatgggtg |
| 4201 | tgagaagatt | aacattttct | ggtttagtgaa | tagcattcat | acgcttttgg | gcaccttccc |
| 4261 | ctgcaacttg | ccagataagc | actattcagc | tcttattccc | agtctgacat | cagcaagtgt |
| 4321 | gattttctat | gaaaaattct | actatgactc | cttattttta | gtatacaaga | aacttgtgac |
| 4381 | tcagaagata | atattttacag | agtggaaaaa | aacctctagc | atttatagtt | ttaacatttg |
| 4441 | aggttttgaa | tgagagagtt | atccataata | tattcaattg | tgttgtggat | aatgacacct |
| 4501 | aacctgtgaa | tcttgagggt | agaatgttga | gtgctgttga | cttgggtggc | aggaaacagc |
| 4561 | tagtgctgta | gcctggcaca | ggcatctcag | tgagtagcat | acccacagtt | ggaaattttt |
| 4621 | caaagaaatc | aaaggaaatc | tgacatctta | taaatttcaa | ggttctgcta | tacttatgtg |
| 4681 | aaatggataa | ataaatcaag | catatccact | ctgtaagatt | gaacttctca | gatggaagac |
| 4741 | ccaataactg | ctttctctct | ttttccctca | ccaaagaaat | aaacaacctc | tttcatttat |
| 4801 | tactggacac | aatcttttag | gtatacctat | ggtaaattac | tagtatgggt | gttaggattt |
| 4861 | atgttaattt | gtatatgtca | tgcgccaaat | catttccact | aaatatgact | atatatcata |
| 4921 | actgcttggt | gatagctcag | tgtttaatat | tttattctca | gaaaaatcaa | attgtatagt |
| 4981 | taaatacatt | agttttatga | ggcaaaaatg | ctaactattt | ctacataatt | tcatTTTTcc |
| 5041 | agataatgaa | aatgtagtca | atgagtactc | ctcagaactg | gaaaagcacc | aatttatatat |
| 5101 | agatgagact | gtgaatagca | atatcccaac | taaccttctg | gtgcttcggt | caatcctgga |
| 5161 | aaacctgaga | agcaaaatac | aaaagttaga | atctgatgtc | tcagctcaaa | tggaatatgt |
| 5221 | tgcaccccca | tgcactgtca | gttgcaatat | tctgtgggtg | tctggcaaaag | gtaactgatt |
| 5281 | cataaacata | tttttagaga | gttccagaag | aactcacaca | ccaaaaataa | gagaacaaca |
| 5341 | acaacaacaa | aaatgctaag | tggattttcc | caacagatca | taatgacatt | acagtacatc |
| 5401 | ataaaaaatat | ccttagccag | tttgtttttg | gactggcctg | gtgcatttgc | tggttttgat |
| 5461 | gagcaggatg | gggcacaggt | agtcacaggg | gtggctgatg | tgtgcatctg | cgtactggct |
| 5521 | tgaacagatg | gcagaaccac | agatagatgt | agaagtttct | ccatttttggt | tgttctggga |
| 5581 | gctcatggat | attccaggac | acaaaagggt | gagaagagct | ttgttcatcc | tcttagcaga |
| 5641 | taaacgtcct | caaaactggg | ttggacttac | taaagtaaaa | tgaaaatcta | atatttggtt |
| 5701 | tattattttt | aaaggtctat | aataacacac | tccttagtaa | cttatgtaat | gttattttta |
| 5761 | agaattgggt | actaaataca | aagtaattat | gtcataaacc | cctgaacata | atgttgtctt |
| 5821 | acatttgtag | aatgtgagga | aattatcagg | aaaggagggt | aaacatctga | aatgtatctc |
| 5881 | attcaacctg | acagttctgt | caaaccgtat | agagtatact | gtgacatgaa | tacagaaaaa |
| 5941 | ggaggtaagc | tttcgacagt | tgttgacctg | ttgatctgta | attatttgga | taccgtaaaa |
| 6001 | tgccaggaaa | caaggccagg | tgtggtgggt | catacctgta | attccagcac | cttgggaggc |
| 6061 | caaagtgggc | tgatagcttg | agcctaggag | tttgaaacta | gcctgggcaa | cataatgaga |
| 6121 | ccctaactct | acaaaaaaaa | aaaaaatacc | aaaaaaaaaa | aaaaaatcag | ctgtgttggt |

FIGURE 5 (continued)

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6181 agtatgtgcc tgtagtccca gctatccagg aggetgagat gggagatcac ctgagcccac
6241 aacctggagt cttgatcatg ctactgaact gtagcctggg caacagagga tagtgagatc
6301 ctgtctcaaa aaaaaaaatt aattaaaaag ccaggaaaca agacttagct ctaacatcta
6361 acatagctga caaaggagta atttgatgtg gaattcaacc tgatatttaa aagttataaa
6421 atatctataa ttcacaattt ggggtaagat aaagcacttg cagtttcaa agattttaca
6481 agtttacctc tcatatttat ttoccttattg tgtctatttt agagcaccaa atatatacta
6541 aatggaatgg acaggggatt cagatattat tttaaagtg acattatttg ctggttggtta
6601 atatatgctc tttttgtttc tgtcaaccaa aggatggaca gtgattcaga accgtcaaga
6661 cggtagtggt gactttggca ggaaatggga tccatataaa cagggatttg gaaatggtgc
6721 aaccaacaca gatgggaaga attactgtgg cctaccaggt aacgaacagg catgcaaaat
6781 aaaatcattc tatttgaat gggaattttt ttaattaaaa aacattcatt gttggaagcc
6841 tgttttaggc agttaagagg agtttcctga caaaaatgtg gaagctaaag ataagggaag
6901 aaaggcagtt tttagtttcc caaaatttta tttttggtga gagattttat tttgttttcc
6961 ttttaggtga atattggcct ggaaatgata aaattagcca gcttaccagg atgggaccca
7021 cagaactttt gatagaaatg gaggactgga aaggagacaa agtaaaggct cactatggag
7081 gattcactgt acagaatgaa gccacaaat accagatctc agtgaacaaa tacagaggaa
7141 cagccggtaa tgccctcatg gatggagcat ctgagctgat gggagaaaac aggaccatga
7201 ccattcacaa cggcatgttc ttcagcacgt atgacagaga caatgacggc tggtagtgtg
7261 ggcactcttt gtcctgctt taaaaatcac actaatatca ttactcagaa tcattaacaa
7321 tttttttaat agctaccact tcttgggcac ttactgtcag ccactgtcct aagctcttta
7381 tgcatactc gaaagcattt caactataag gtagacattc ttattctcat ttacagatg
7441 agatttagag agattacgtg atttgtccaa tgtcacacaa ctaccagag ataaaactag
7501 aatttgagca cagttacttt ctgaataatg agcattttaga taaataccta tatctctata
7561 ttctaaagtg tgtgtgaaaa ctttcatttt catttccagg gttctctgat actaagggtt
7621 gtaaaagcta ttattccagt ataaagtaac aaacacagtc cctagatgga ttgccacaaa
7681 ggcccagtta tctctcttcc ttgctatagg gcacaggagg tctttggtgt attagtgtga
7741 ctctatgtat agcaccacaa ggaaagacta ctgtgcacac gagtgtagca gtcttttatg
7801 ggtaatctgc aaaacgtaac ttgaccaccg tagttctgtt tctaataacg ccaaacacat
7861 tttctttcag gttaacatca gatcccagaa aacagtgttc taaagaagac ggtgggtgat
7921 ggtggtataa tagatgtcat gcagccaatc caaacggcag atactactgg ggtggacagt
7981 acacctggga catggcaaag catggcacag atgatggtgt agtatggatg aattggaagg
8041 ggtcatggta ctcaatgagg aagatgagta tgaagatcag gcccttcttc ccacagcaat
8101 agtccccaat acgtagattt ttgctcttct gtatgtgaca acatttttgt acattatggt
8161 attggaattt tctttcatac attatatctc tctaaaactc tcaagcagac gtgagtgtga
8221 ctttttgaaa aaagtatagg ataaattaca ttaaaatagc acatgatattt cttttgtttt
8281 cttcatttct cttgctcacc caagaagtaa caaaagtata gttttgacag agttggtggt
8341 cataatttca gttctagtgt attgogagaa ttttcaaata aggaagaggg gtctttttatc
8401 cttgtcgtag gaaaaccatg acggaaagga aaaactgatg tttaaaagtc cactttttaa
8461 actatattta tttatgtagg atctgtcaaa gaaaacttcc aaaaagattt attaatataa
8521 ccagactctg ttgcaataag ttaatgtttt cttgttttgt aatccacaca ttcaatgagt
8581 taggctttgc acttgtaagg aaggagaagc gttcacaacc tcaaatagct aataaaccgg
8641 tcttgaatat ttgaagattt aaaatctgac tctaggacgg gcacggtggc tcacgactat
8701 aatcccaaca ctttgggagg ctgaggcggg cggtcacaag gtcaggagtt caagaccagc
8761 ctgaccaata tgggtgaaacc ccatctctac taaaaataca aaaattagcc aggcgtgggtg
8821 gcagggtgct gtaggtccca gctagcctgt gaggtggaga ttgcattgag ccaagatc

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FIGURE 6

1 mkrmvswsfh klktmkhl11 lllcvflvks qgvndneegf fsarghrpld kkreeapslr
61 pappppisggg yrarpakaaa tqkkverkap daggclhadp dlglvclptgc qlqeallqqe
121 rpirnsvdel nnnveavsqt ssssfqymyl lkdlwqkrqk qvkdnenvvv eysselekhq
181 lyidetvnsn iatnlrvlrs ilenlrskiq klesdvsaqm eycrtpctvs cnipvvsgke
241 ceeiirkgge tsemyliqpd ssvkpyrvyc dmttenggwgt viqnrqdgsv dfgrkwdpk
301 qgfgnvatnt dgknycgldp eywlgndkis qltrmgptel liemedwkgd kvkahyggft
361 vqneankyqi svnkyrgtag nalmdgasql mgenrtmtih ngmffstydr dndgwltsgp
421 rkqcskedgg gwwynrchaa npngryywgq qytwdmakhg tddgvvwmnw kgsywsmrkm
481 smkirpffpq q